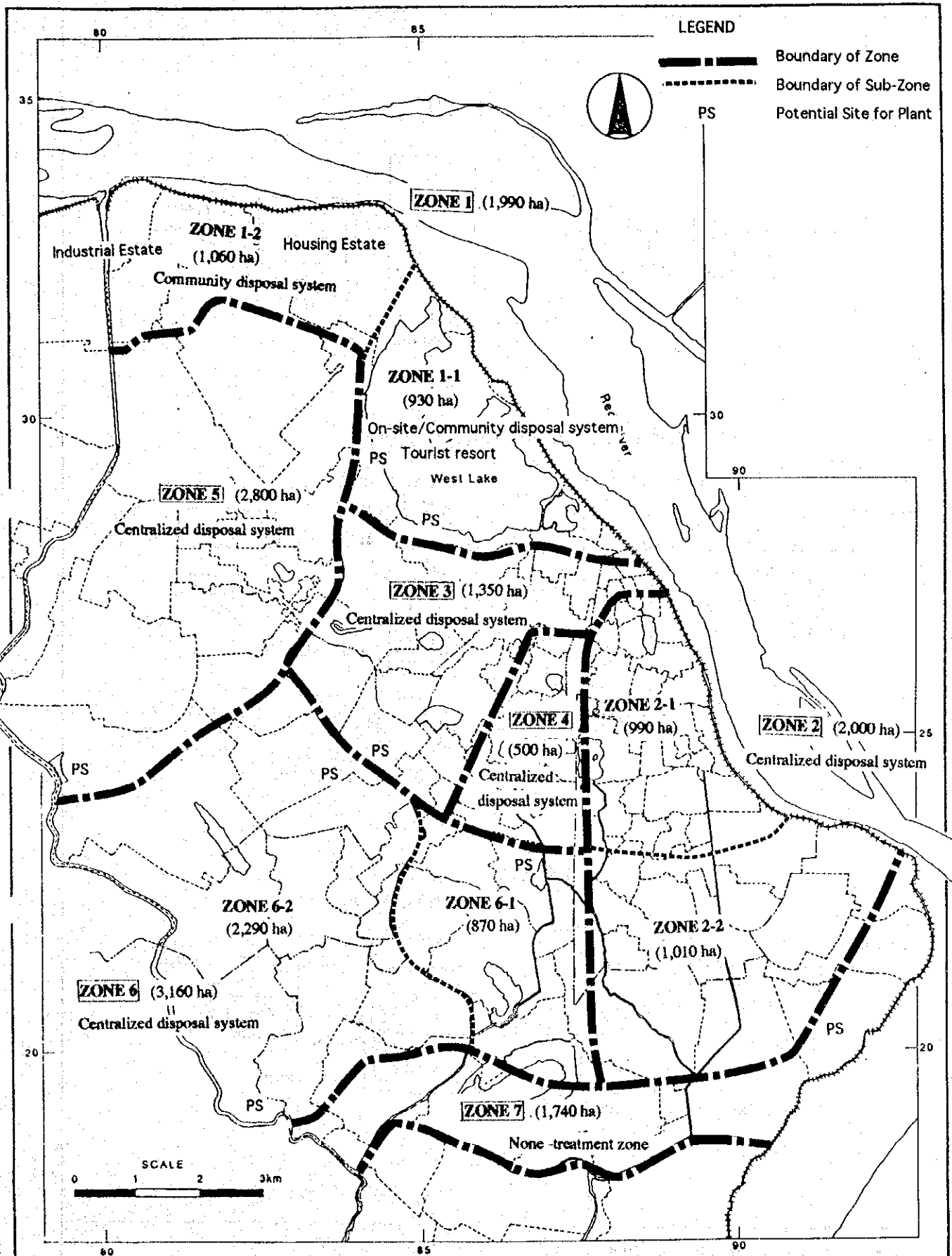


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 DISPOSAL SYSTEM IN HANOI CITY
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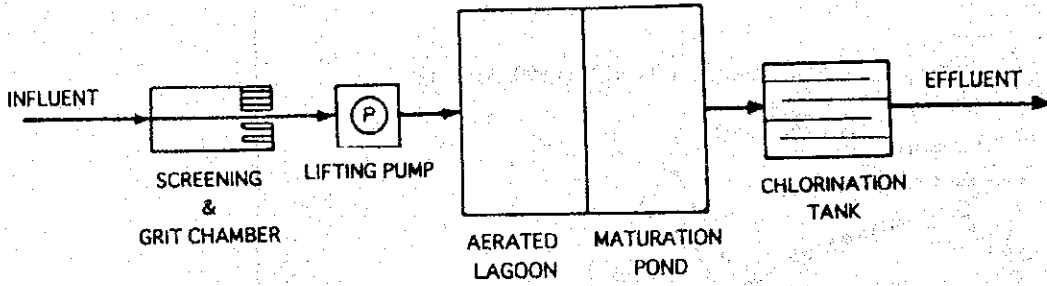
Fig.E4.5
 Future Pollutant Load in 2010



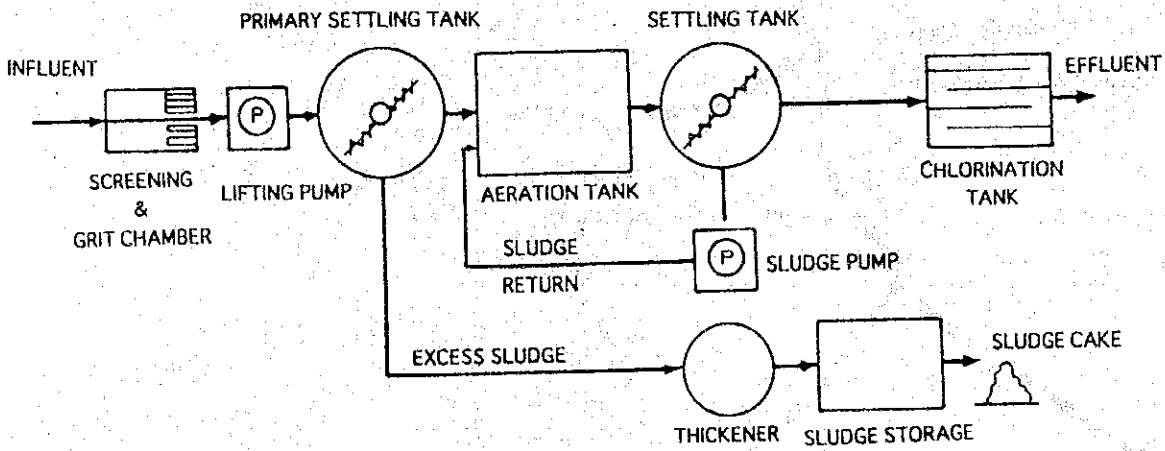
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 DISPOSAL SYSTEM IN HANOI CITY
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Fig. E4.7
 Conceptual Zoning Plan

AERATED LAGOON



CONVENTIONAL ACTIVATED SLUDGE



OXIDATION DITCH

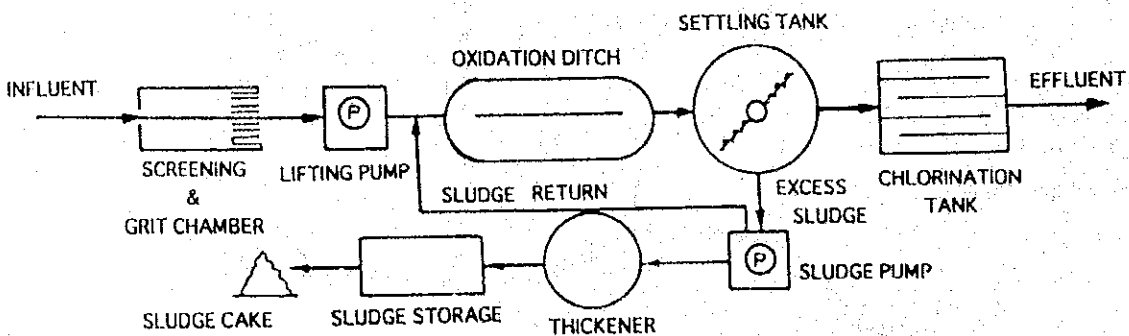


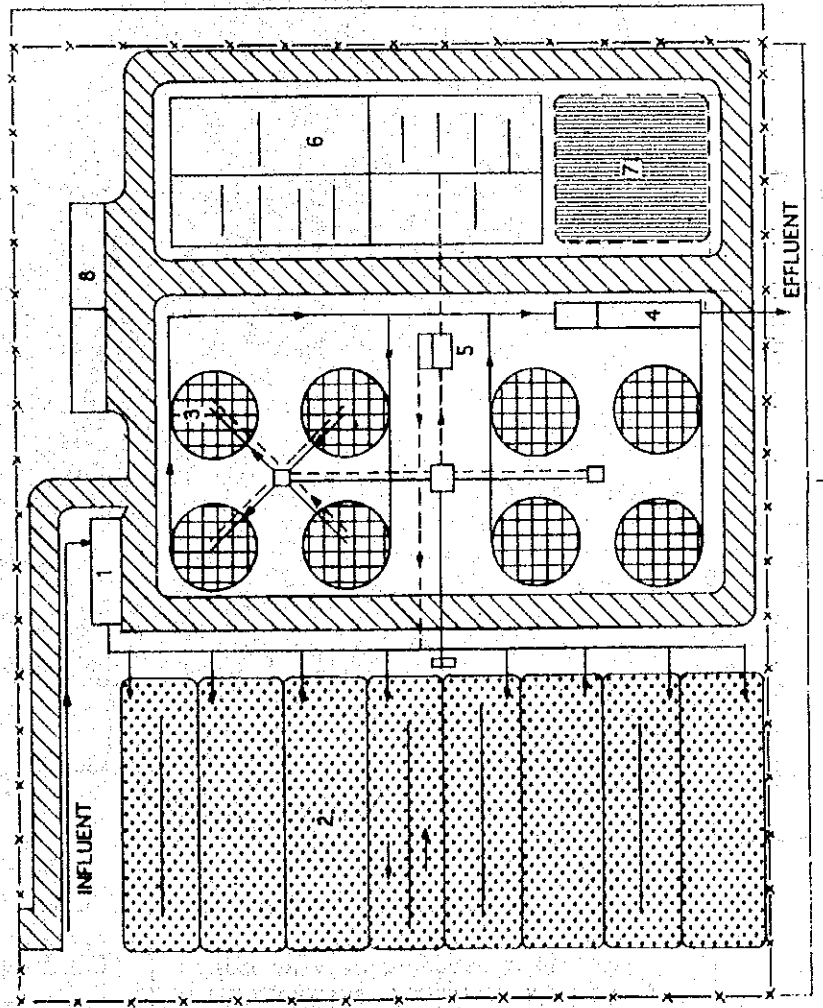
Fig.E4.8

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DISPOSAL SYSTEM IN HANOI CITY

Typical Wastewater Treatment Methods

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1. INLET FACILITIES AND FLOW MEASUREMENT
2. OXIDATION DITCHES
3. SETTLING TANKS
4. CHLORINATION CONTACT TANK
5. DOSING PUMPS AND STORAGE
6. SLUDGE PUMPING STATION
7. SLUDGE DRYING BEDS
8. SLUDGE STORAGE
- ADMINISTRATIVE OFFICE AND LABORATORY



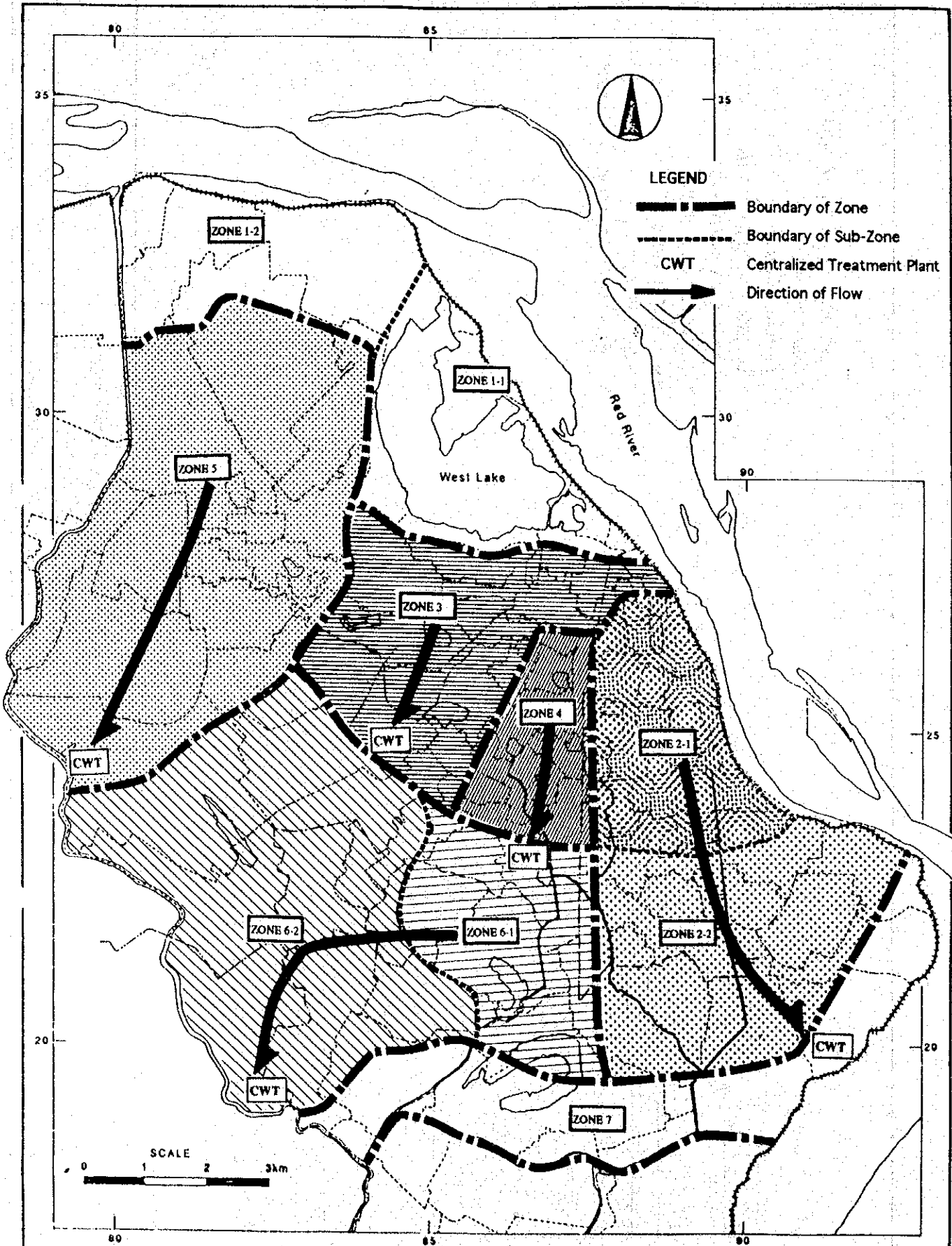
LEGEND

- ROAD
- FENCE
- FLOW PATH
- SLUDGE PIPES

FIGURE 4.9

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 DISPOSAL SYSTEM IN HANOI CITY
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Schematic Layout for Oxidation Ditch



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 DISPOSAL SYSTEM IN HANOI CITY
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Fig. E5.1
 Zoning Plan
 (Alternative 1)

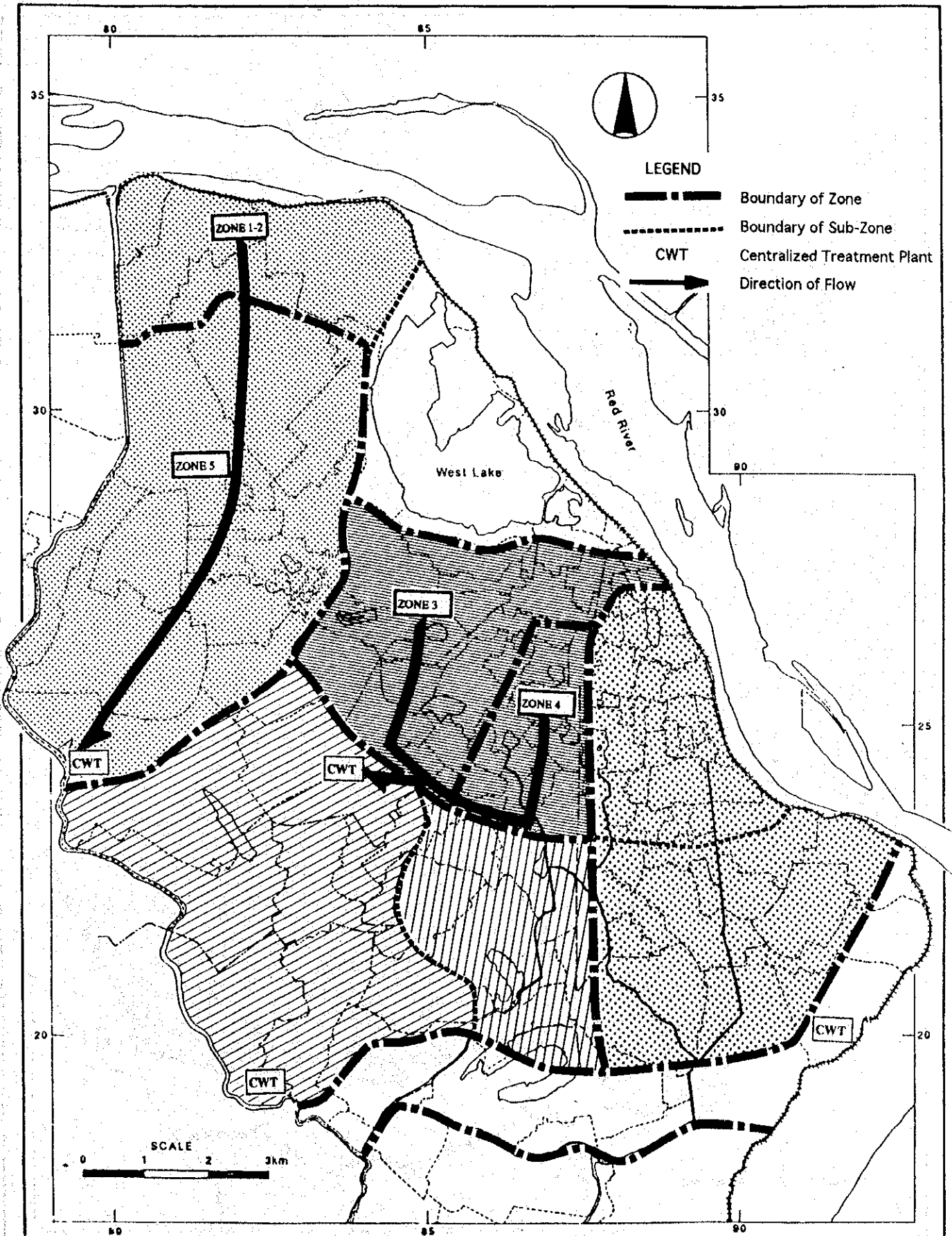
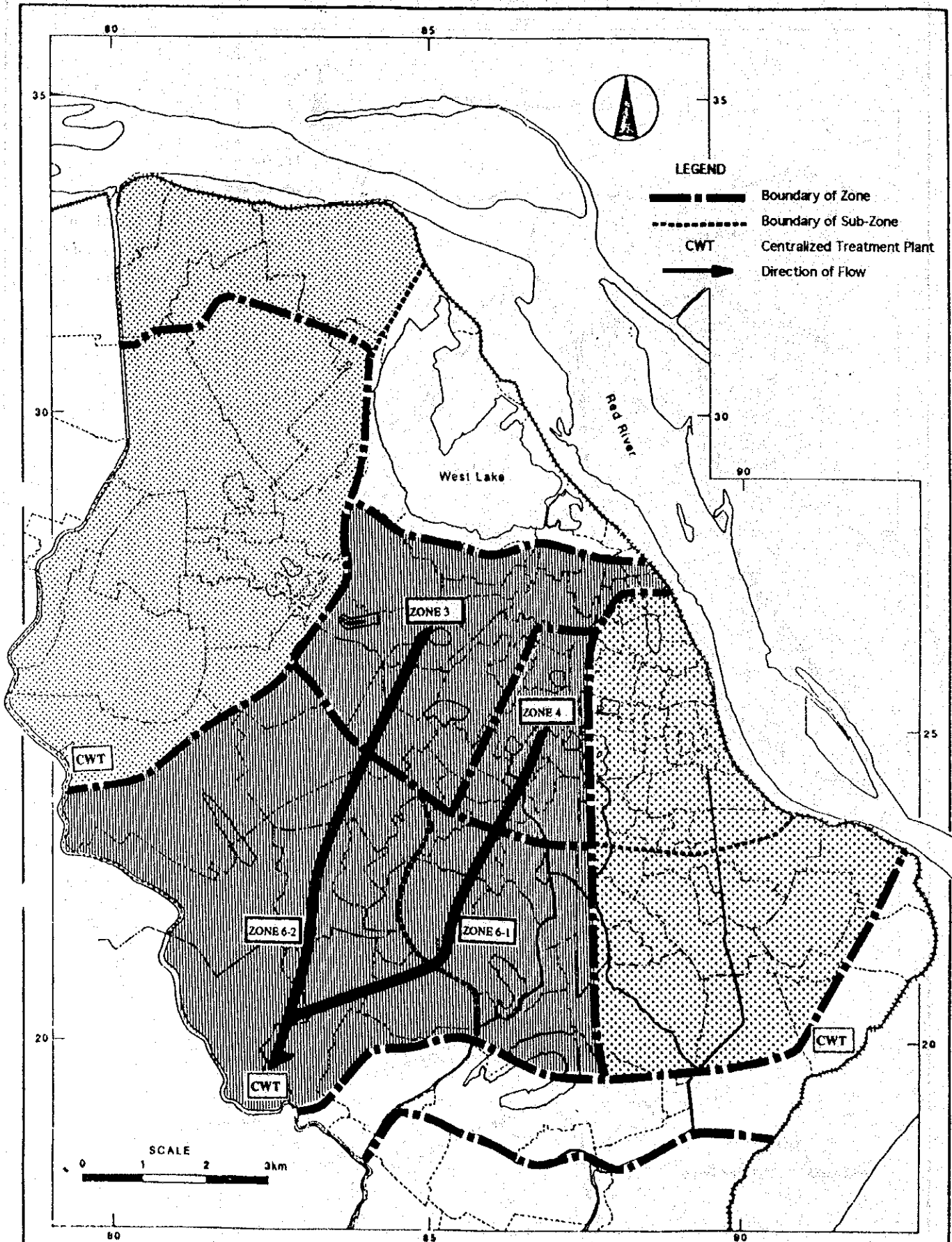
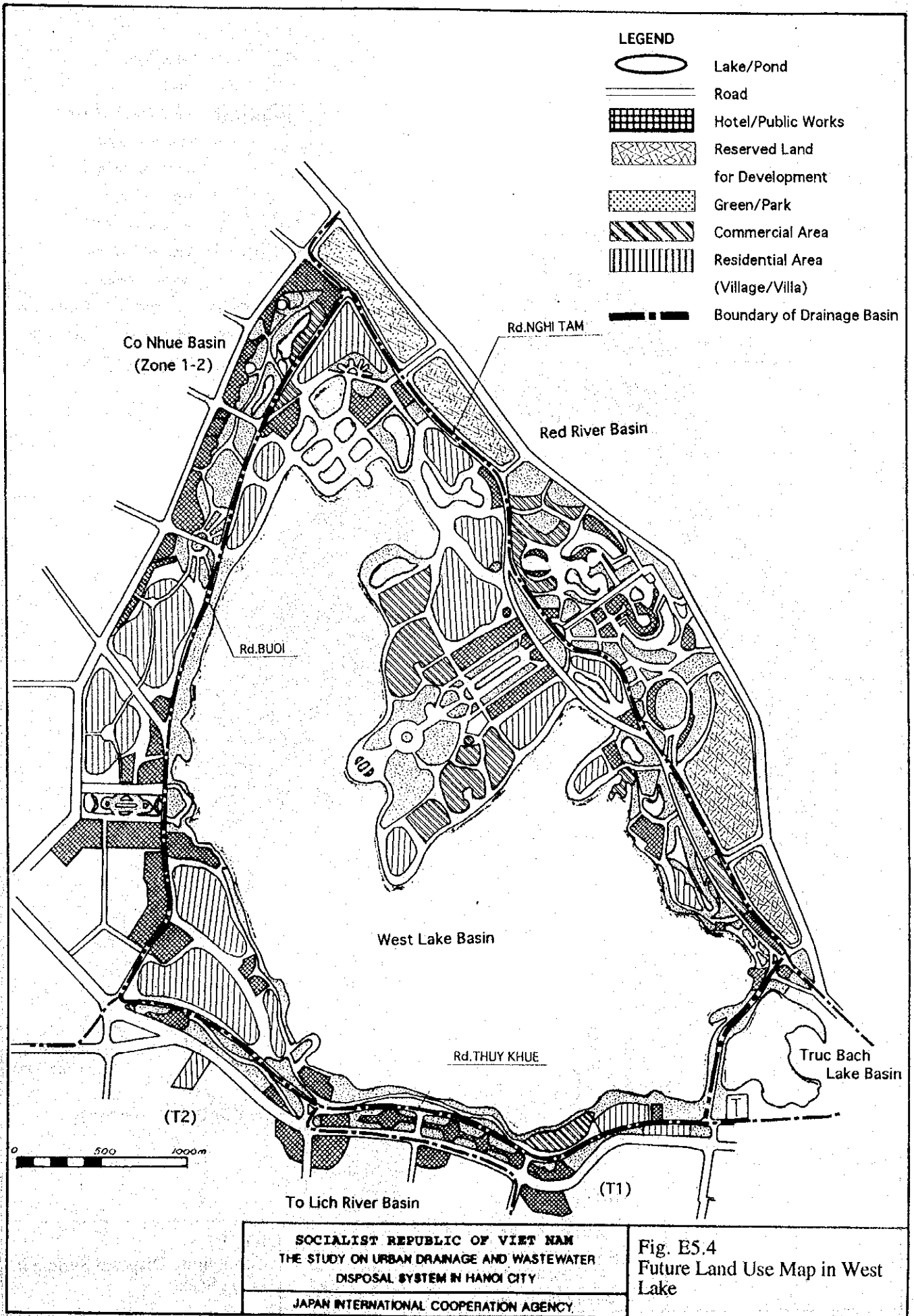


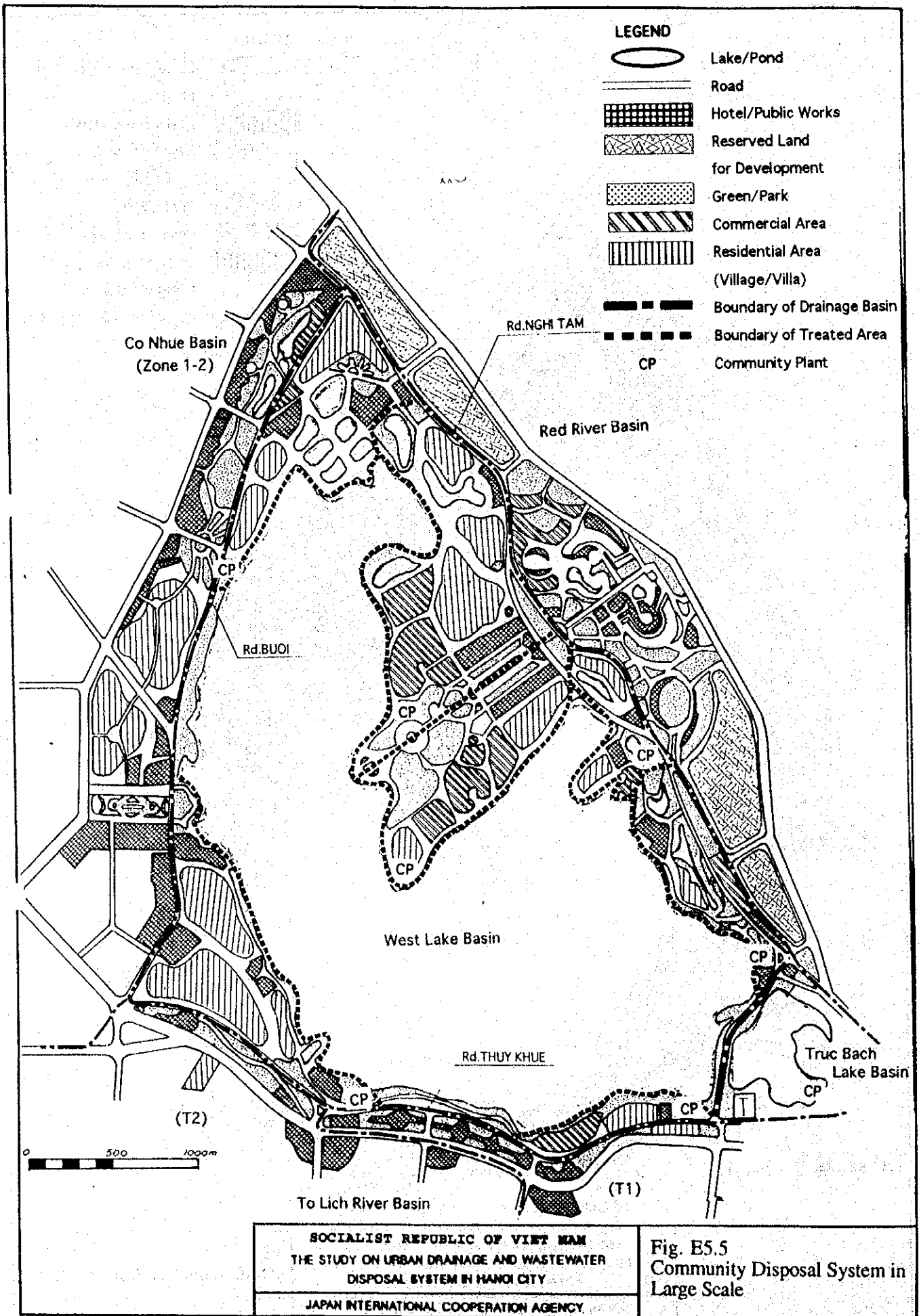
Fig. E5.2
 Zoning Plan
 (Alternative 2)

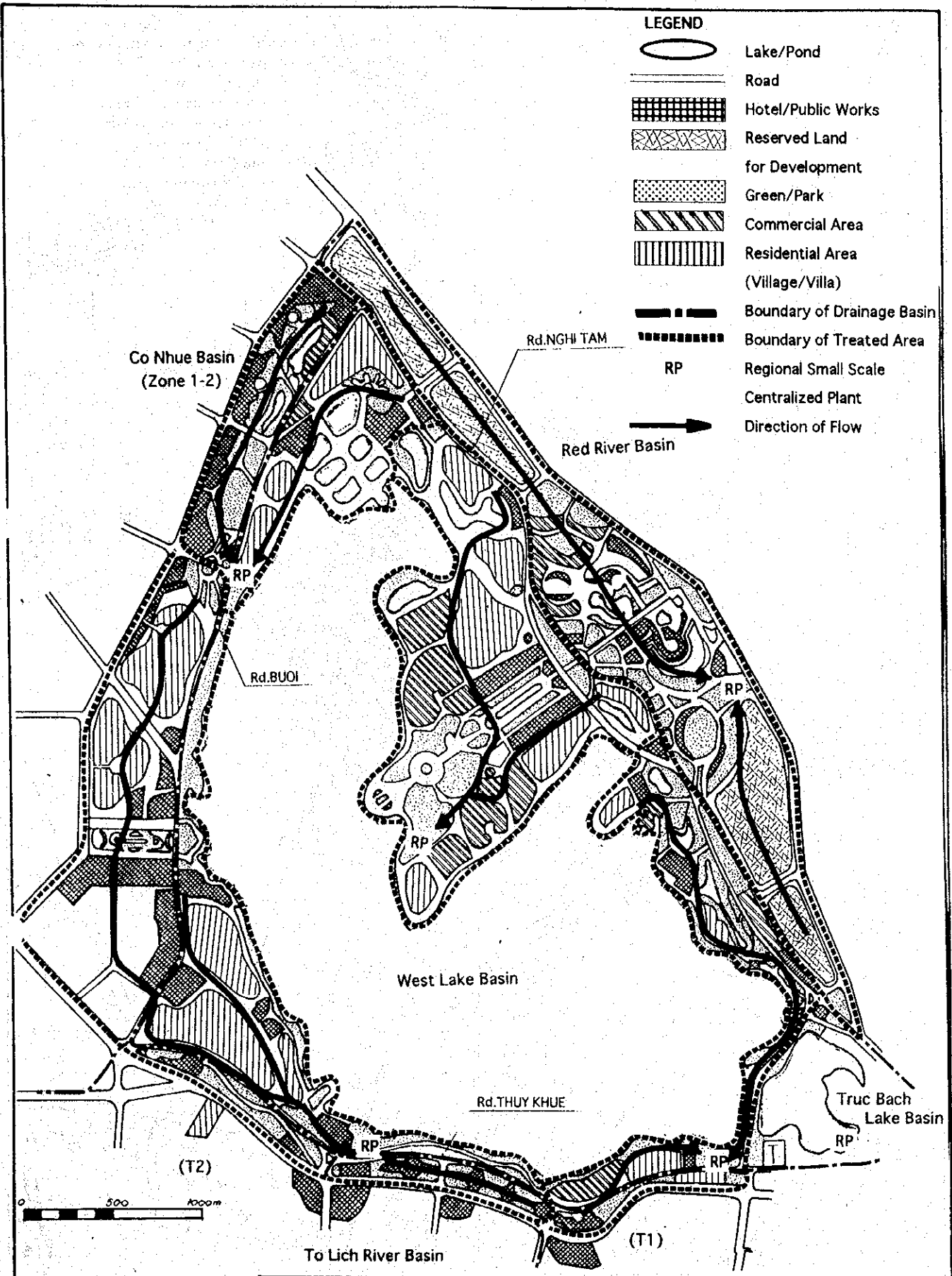


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 DISPOSAL SYSTEM IN HANOI CITY
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Fig. E5.3
 Zoning Plan
 (Alternative 3)



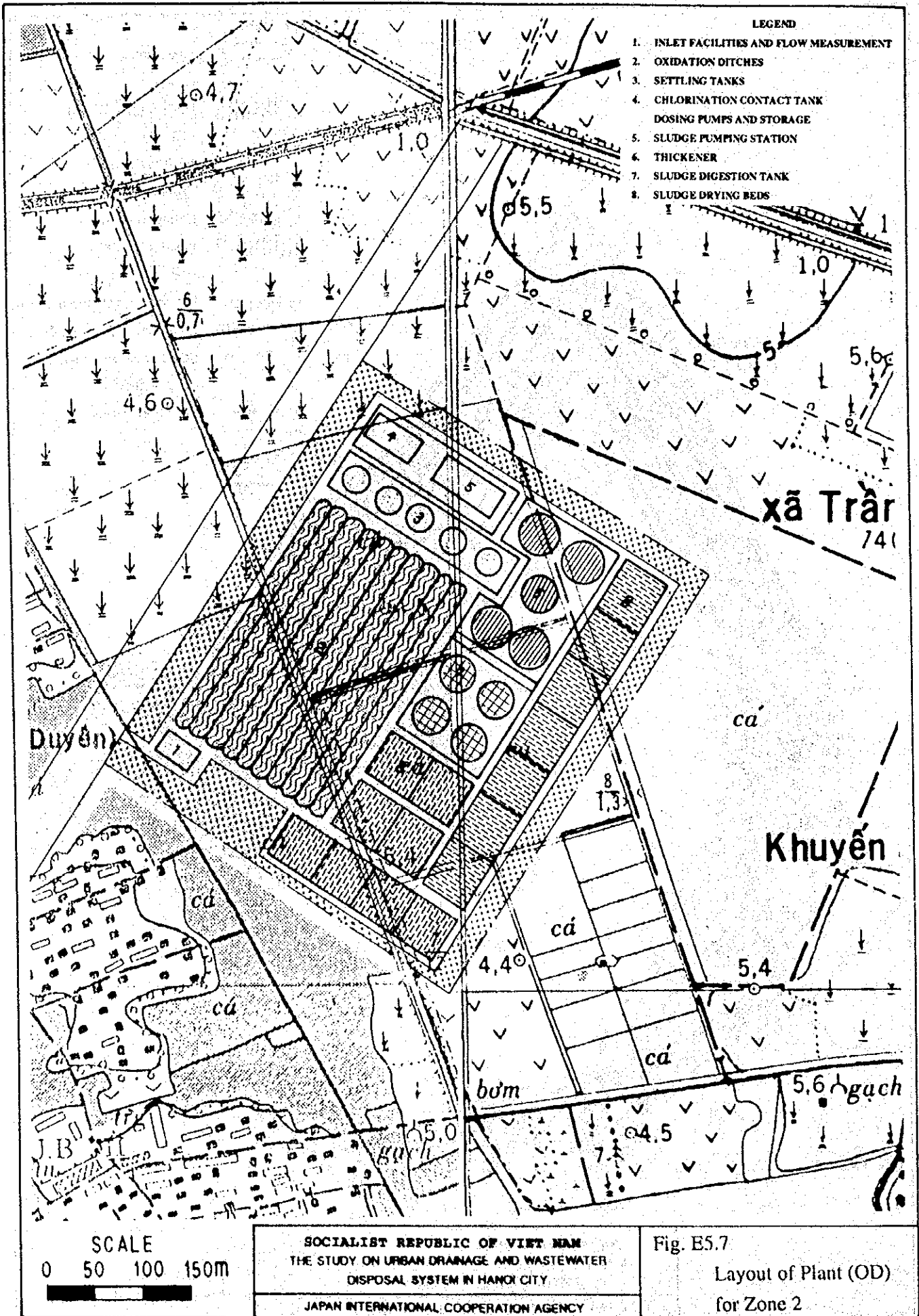


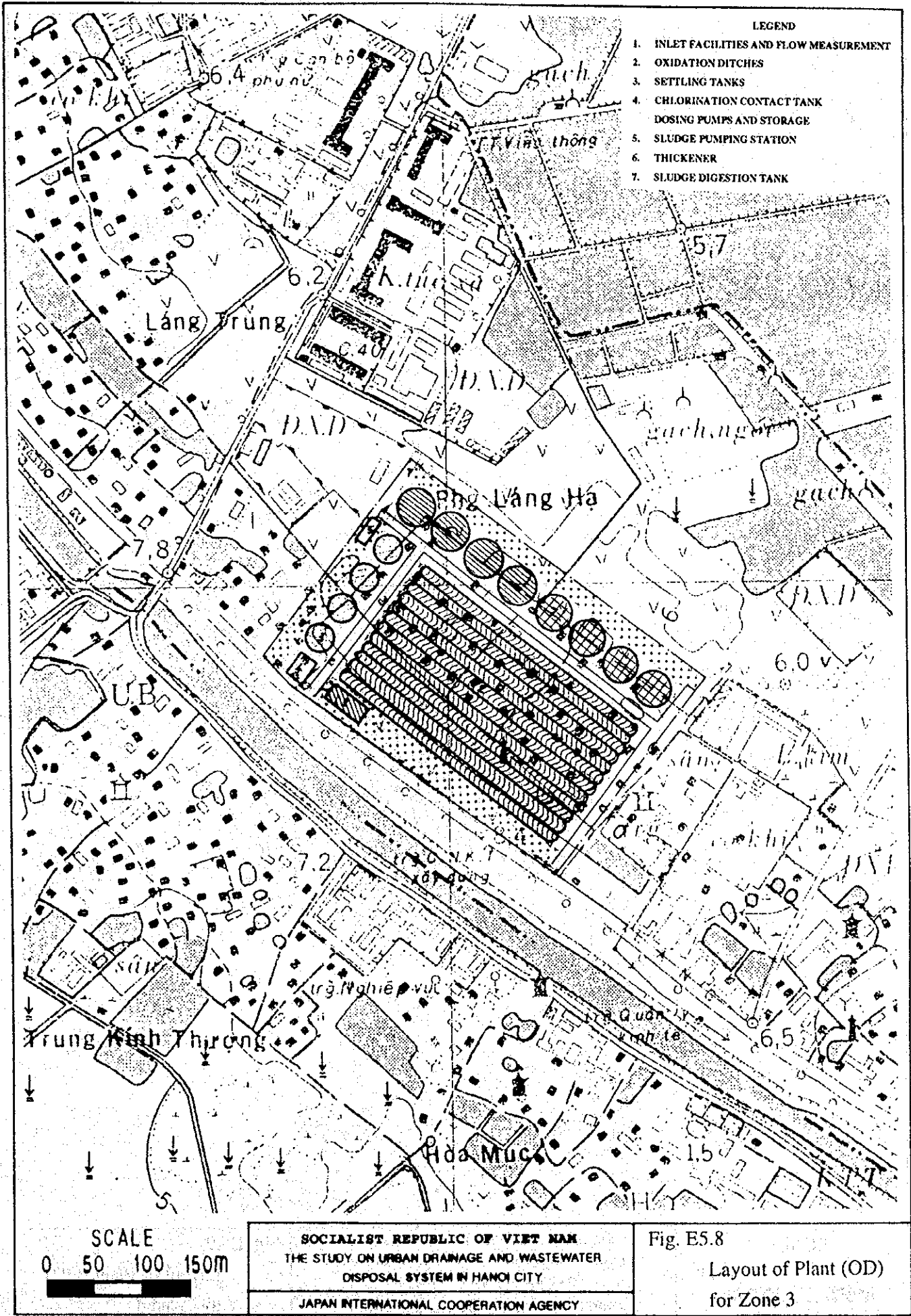


- LEGEND**
- Lake/Pond
 - Road
 - Hotel/Public Works
 - Reserved Land for Development
 - Green/Park
 - Commercial Area
 - Residential Area (Village/Villa)
 - Boundary of Drainage Basin
 - Boundary of Treated Area
 - Regional Small Scale Centralized Plant
 - Direction of Flow

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 DISPOSAL SYSTEM IN HANOI CITY
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Fig. E5.6
 Regional Small Scale
 Centralized Disposal System



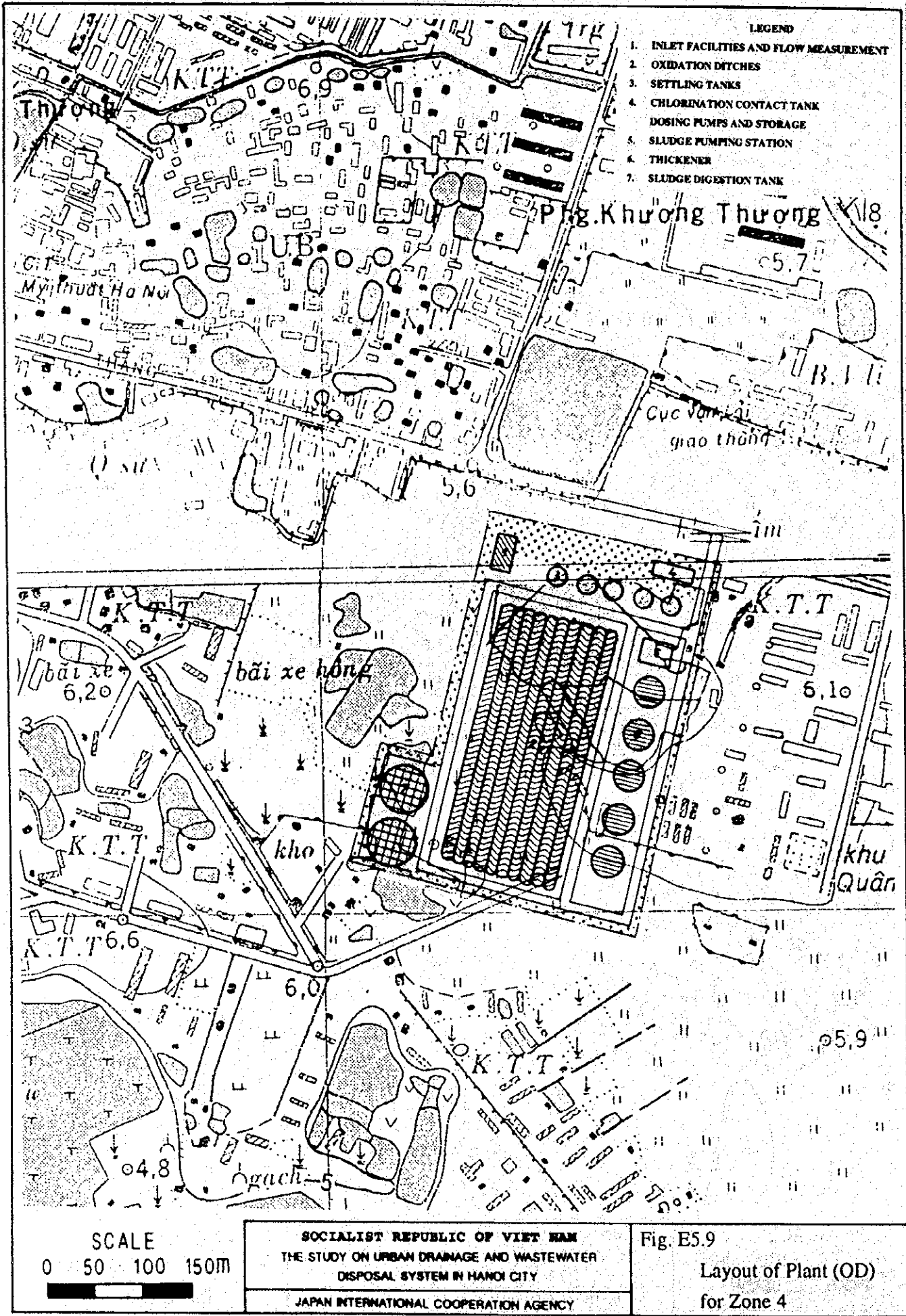


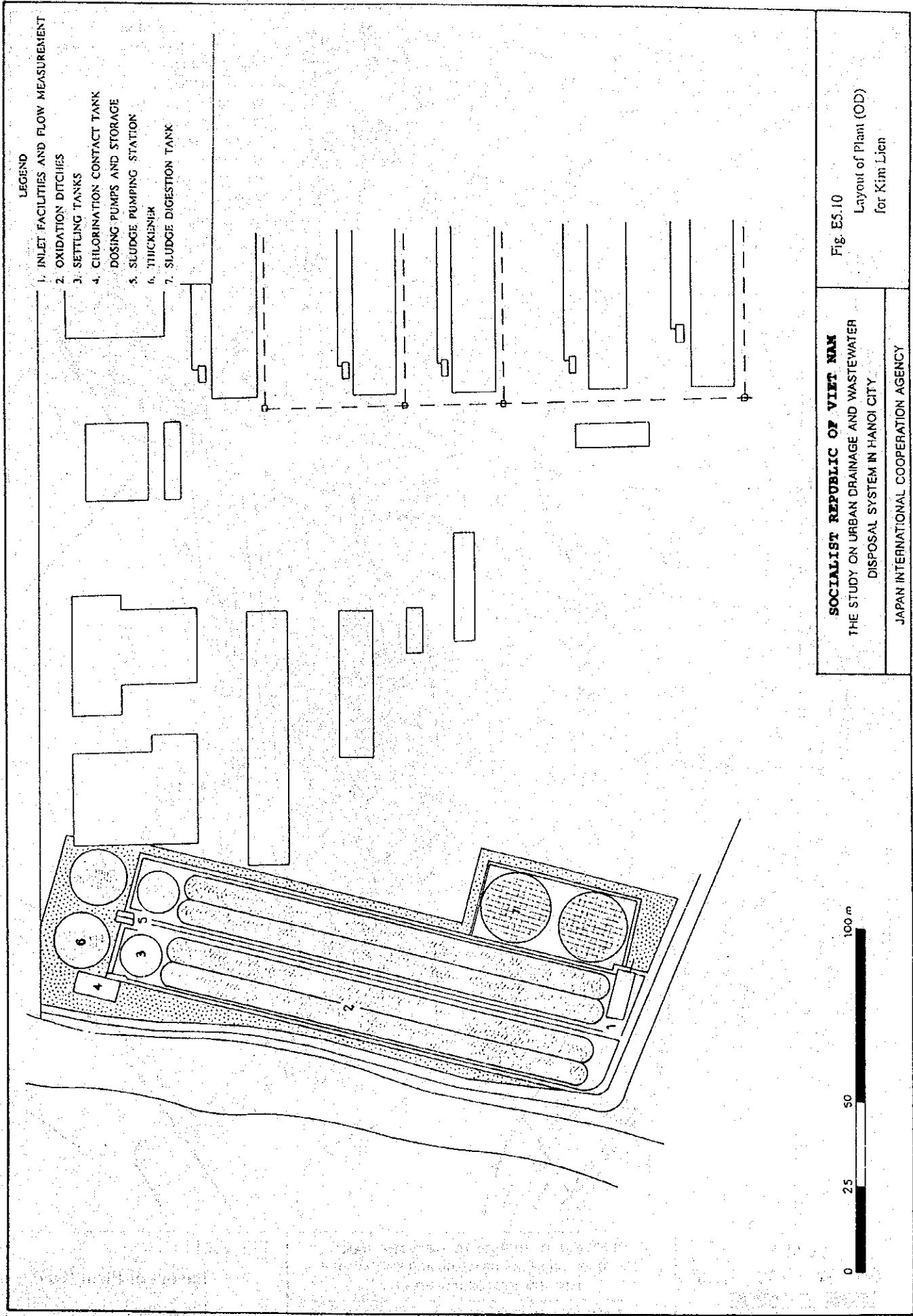
- LEGEND
1. INLET FACILITIES AND FLOW MEASUREMENT
 2. OXIDATION DITCHES
 3. SETTLING TANKS
 4. CHLORINATION CONTACT TANK
DOSING PUMPS AND STORAGE
 5. SLUDGE PUMPING STATION
 6. THICKENER
 7. SLUDGE DIGESTION TANK

SCALE
0 50 100 150m

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Fig. E5.8
Layout of Plant (OD)
for Zone 3





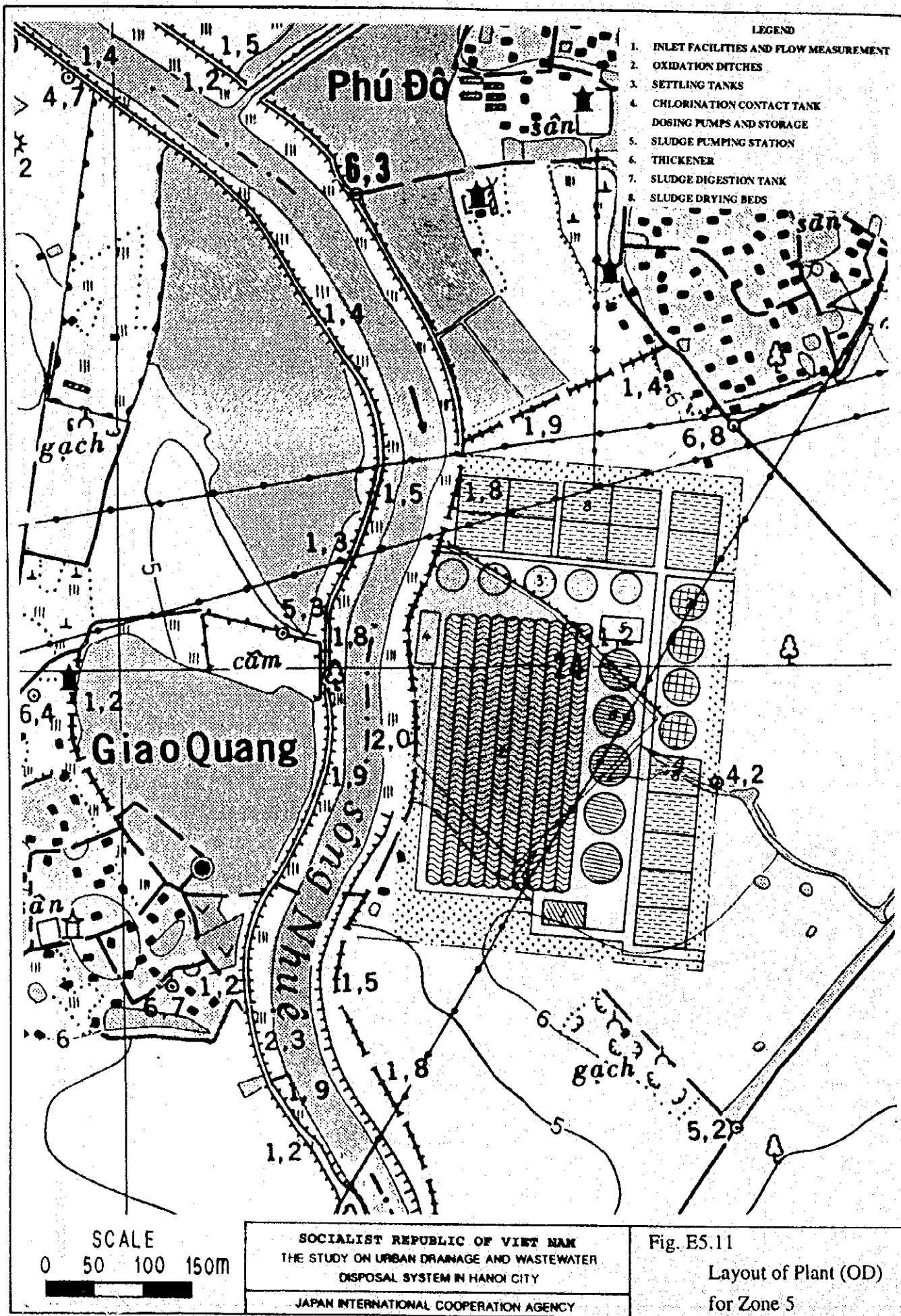
LEGEND

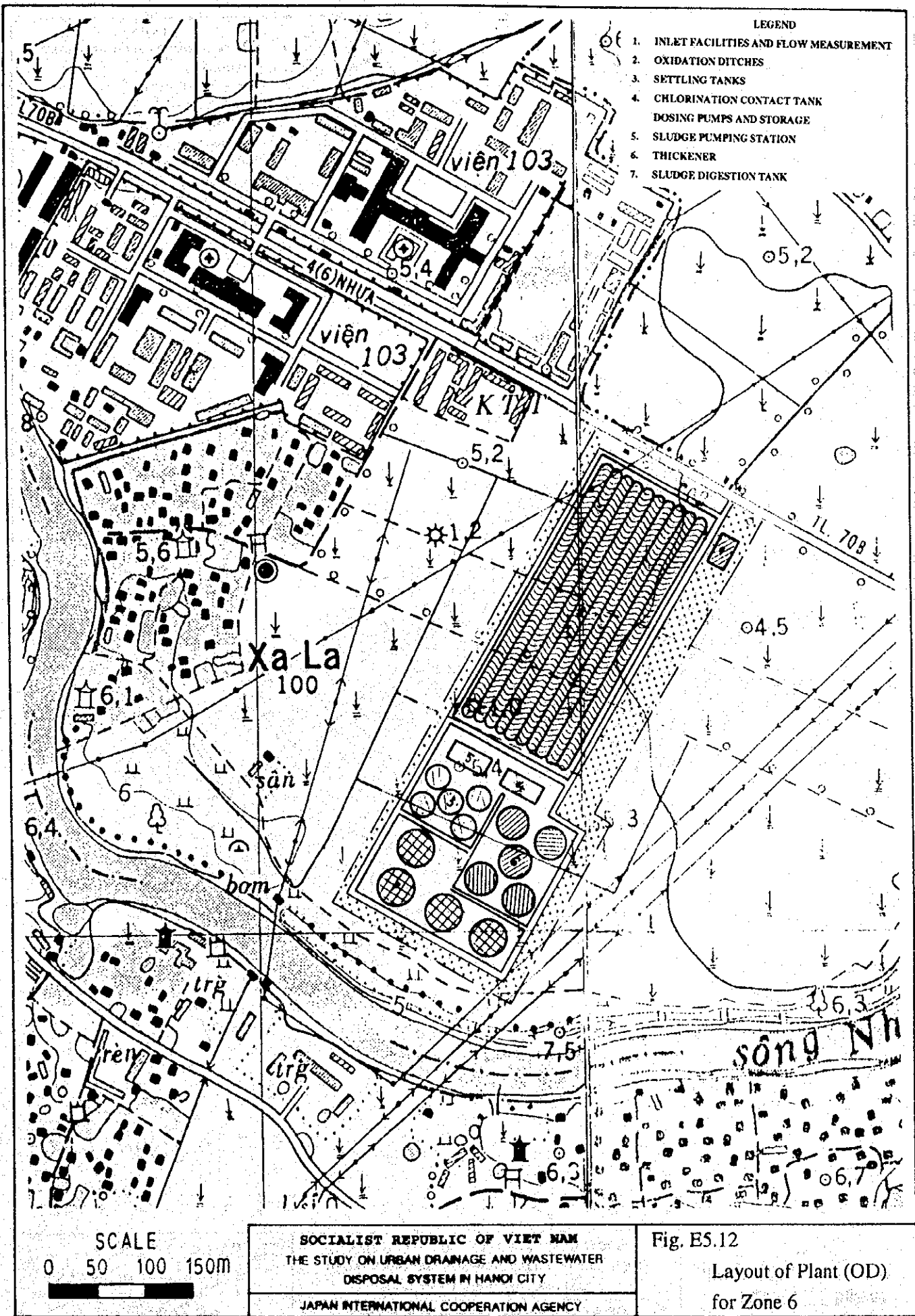
- 1. INLET FACILITIES AND FLOW MEASUREMENT
- 2. OXIDATION DITCHES
- 3. SETTLING TANKS
- 4. CHLORINATION CONTACT TANK
- 5. DOSING PUMPS AND STORAGE
- 6. SLUDGE PUMPING STATION
- 7. SLUDGE DIGESTION TANK

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 DISPOSAL SYSTEM IN HANOI CITY.
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Fig. E5.10
 Layout of Plant (OD)
 for Kim Lien





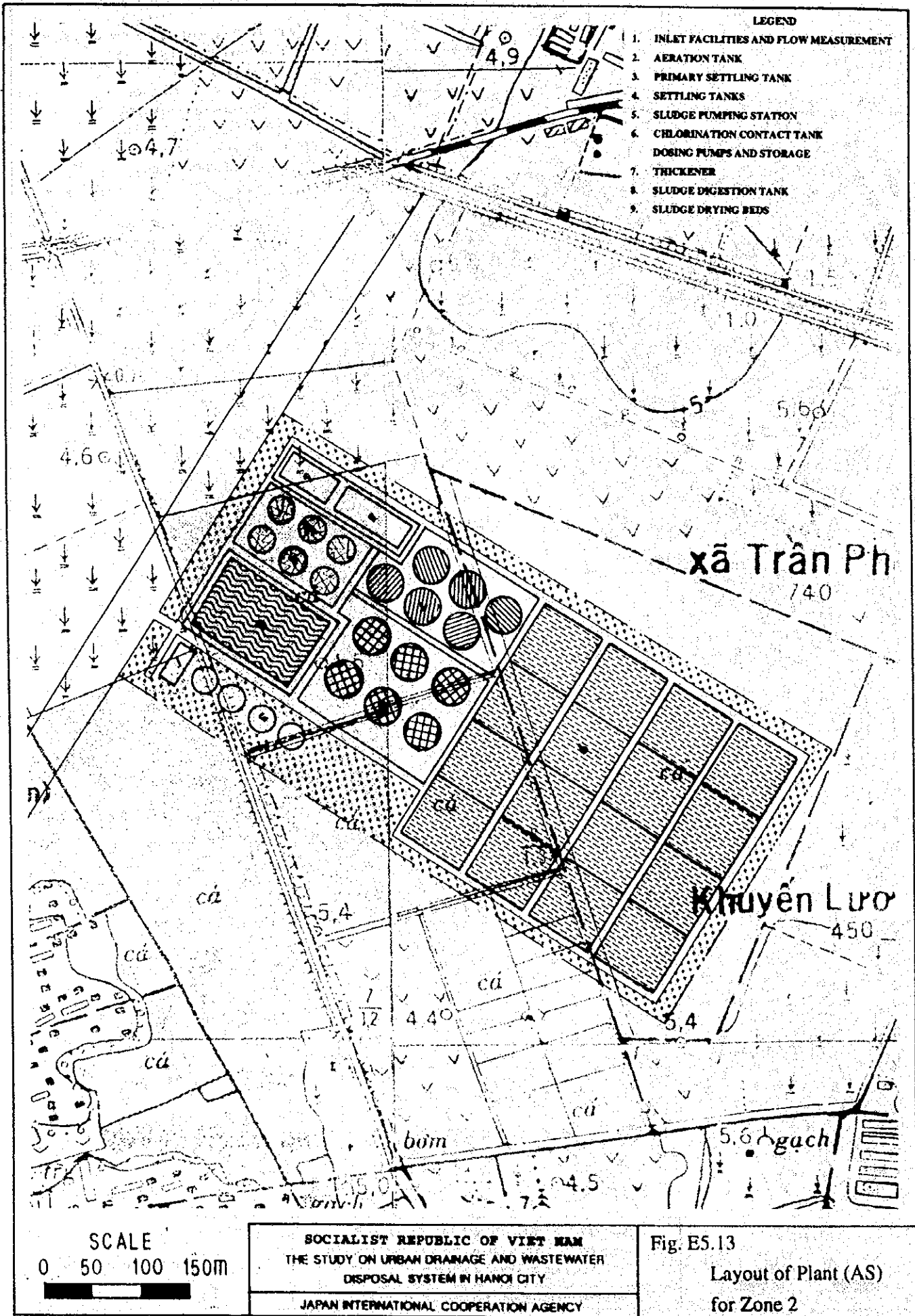


- LEGEND**
1. INLET FACILITIES AND FLOW MEASUREMENT
 2. OXIDATION DITCHES
 3. SETTLING TANKS
 4. CHLORINATION CONTACT TANK
 5. DOSING PUMPS AND STORAGE
 6. SLUDGE PUMPING STATION
 6. THICKENER
 7. SLUDGE DIGESTION TANK

SCALE
 0 50 100 150m

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 DISPOSAL SYSTEM IN HANOI CITY
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Fig. E5.12
 Layout of Plant (OD)
 for Zone 6

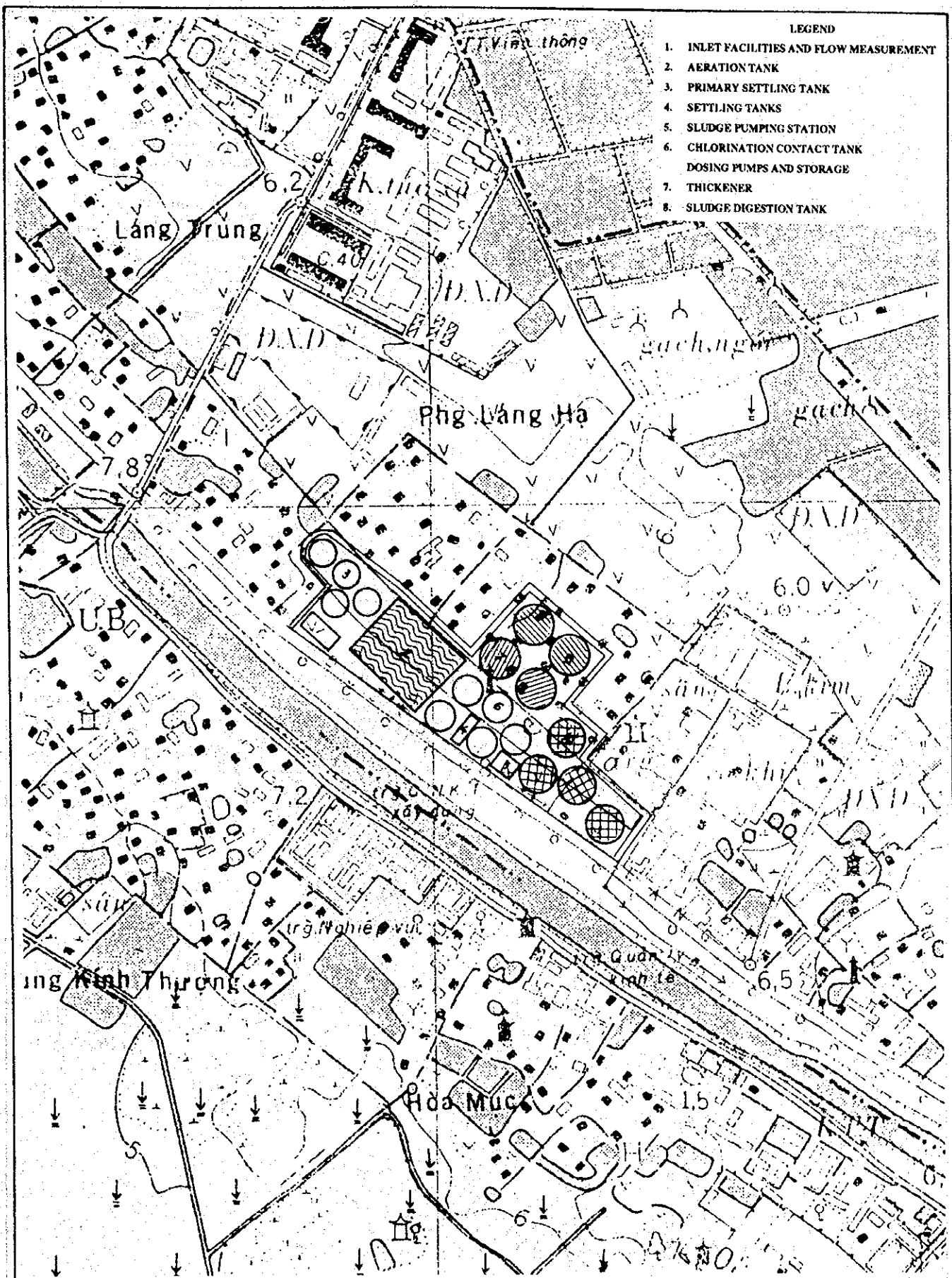


- LEGEND
1. INLET FACILITIES AND FLOW MEASUREMENT
 2. AERATION TANK
 3. PRIMARY SETTLING TANK
 4. SETTLING TANKS
 5. SLUDGE PUMPING STATION
 6. CHLORINATION CONTACT TANK
DOSING PUMPS AND STORAGE
 7. THICKENER
 8. SLUDGE DIGESTION TANK
 9. SLUDGE DRYING BEDS

SCALE
0 50 100 150m

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Fig. E5.13
Layout of Plant (AS)
for Zone 2

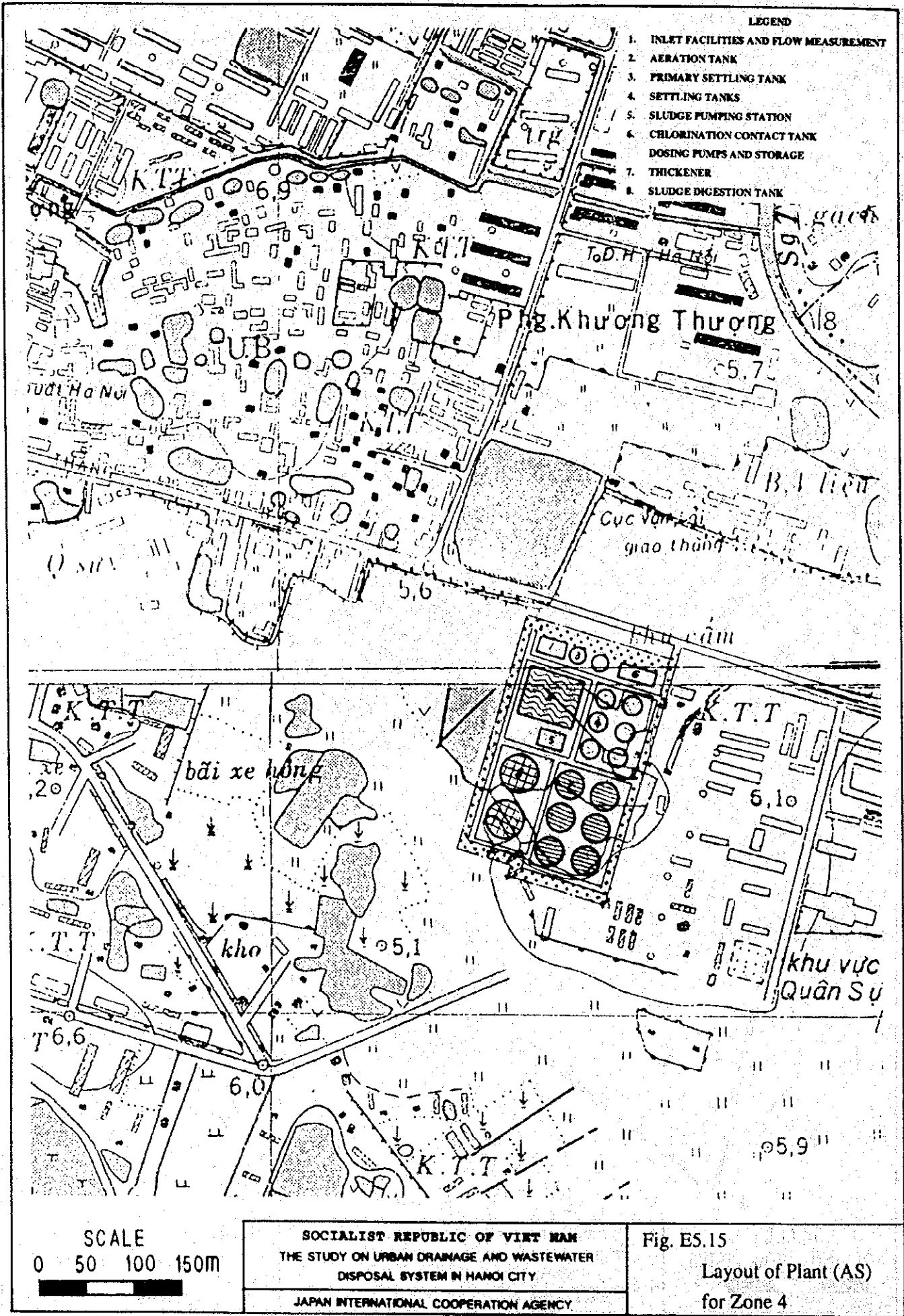


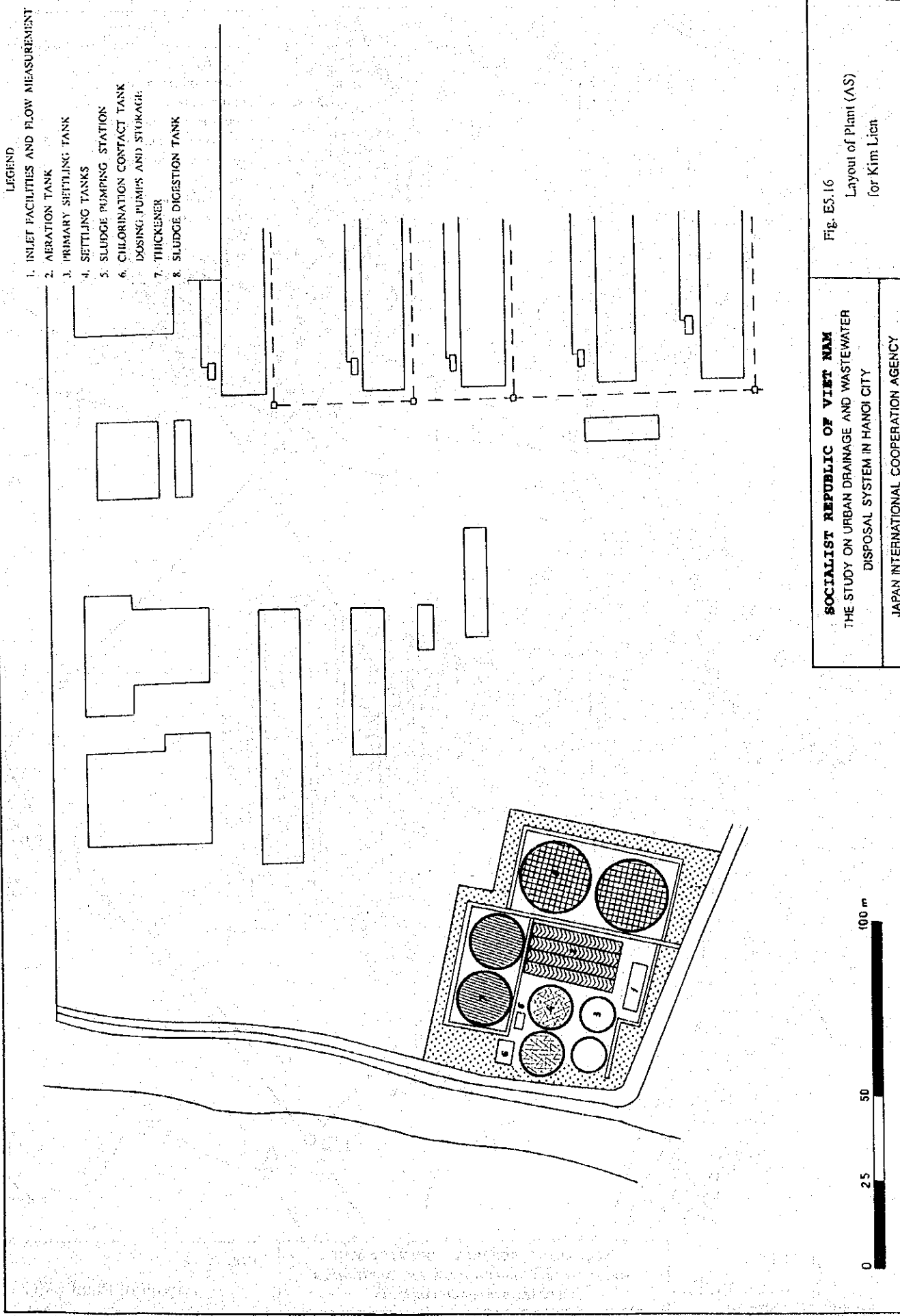
- LEGEND**
1. INLET FACILITIES AND FLOW MEASUREMENT
 2. AERATION TANK
 3. PRIMARY SETTLING TANK
 4. SETTLING TANKS
 5. SLUDGE PUMPING STATION
 6. CHLORINATION CONTACT TANK
DOSING PUMPS AND STORAGE
 7. THICKENER
 8. SLUDGE DIGESTION TANK

SCALE
0 50 100 150m

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Fig. E5.14
Layout of Plant (AS)
for Zone 3



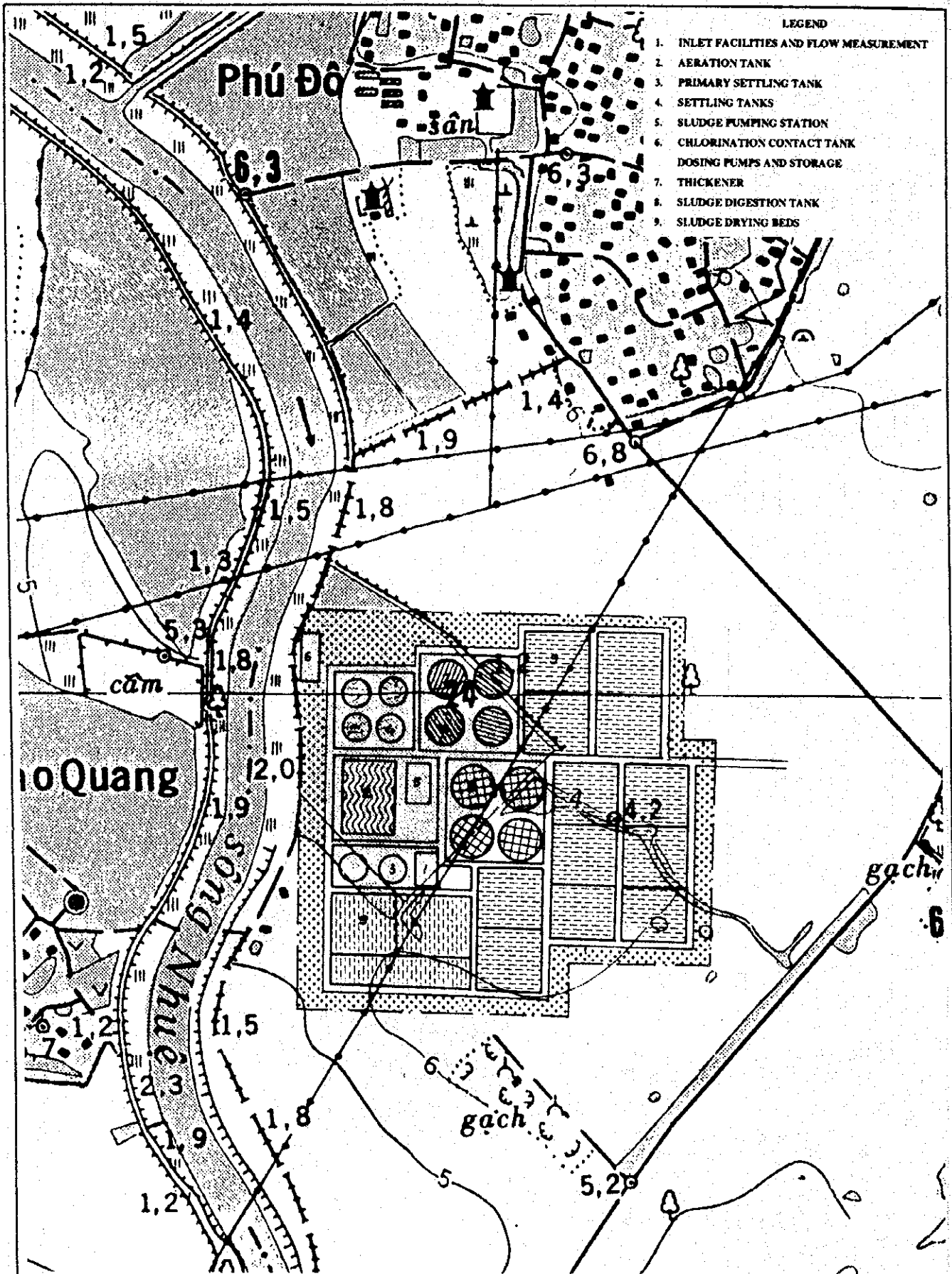


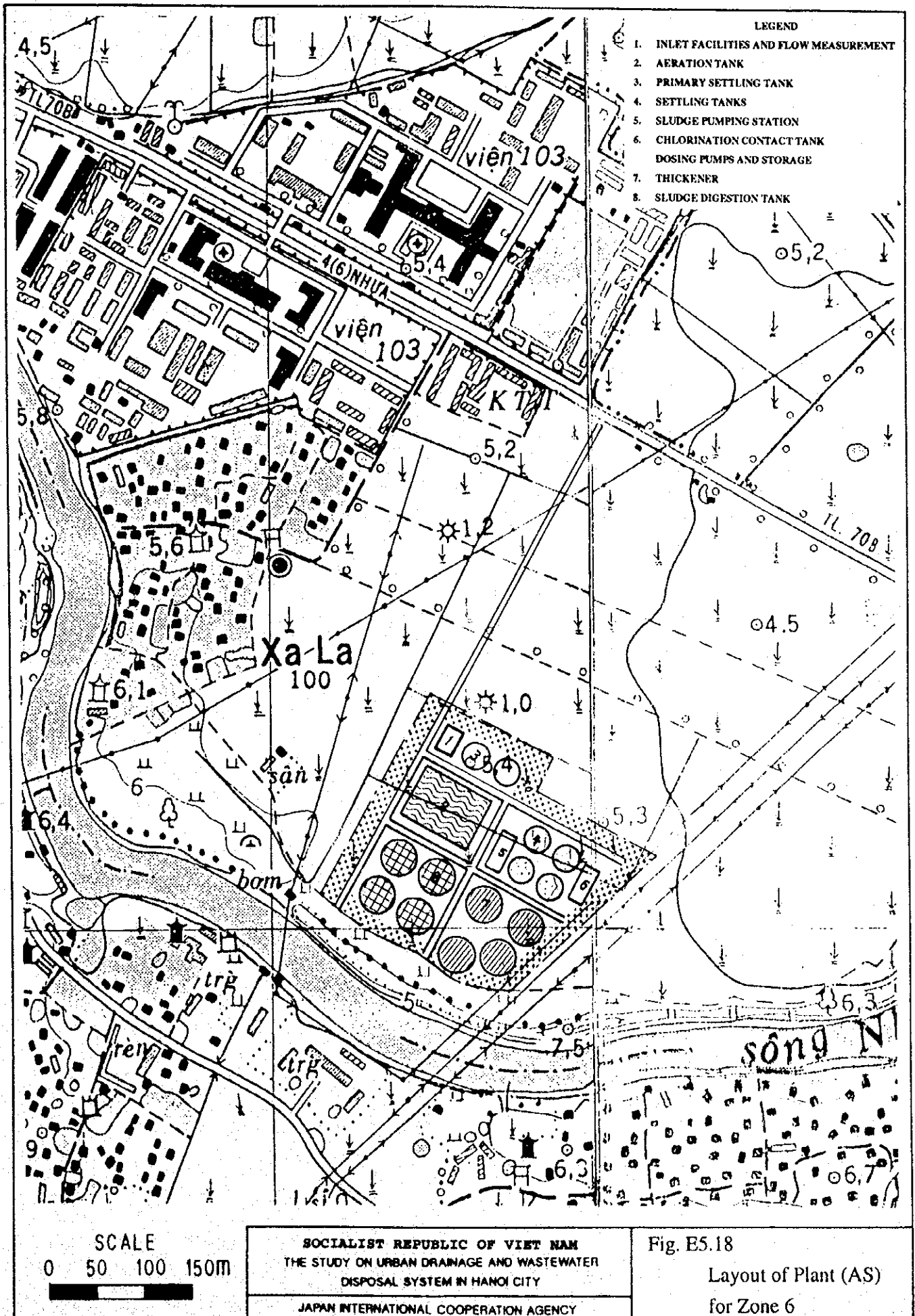
LEGEND

- 1. INLET FACILITIES AND FLOW MEASUREMENT
- 2. AERATION TANK
- 3. PRIMARY SETTLING TANK
- 4. SETTLING TANKS
- 5. SLUDGE PUMPING STATION
- 6. CHLORINATION CONTACT TANK
- 7. THICKENER
- 8. SLUDGE DIGESTION TANK

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Fig. ES.16
 Layout of Plant (AS)
 for Kim Lien



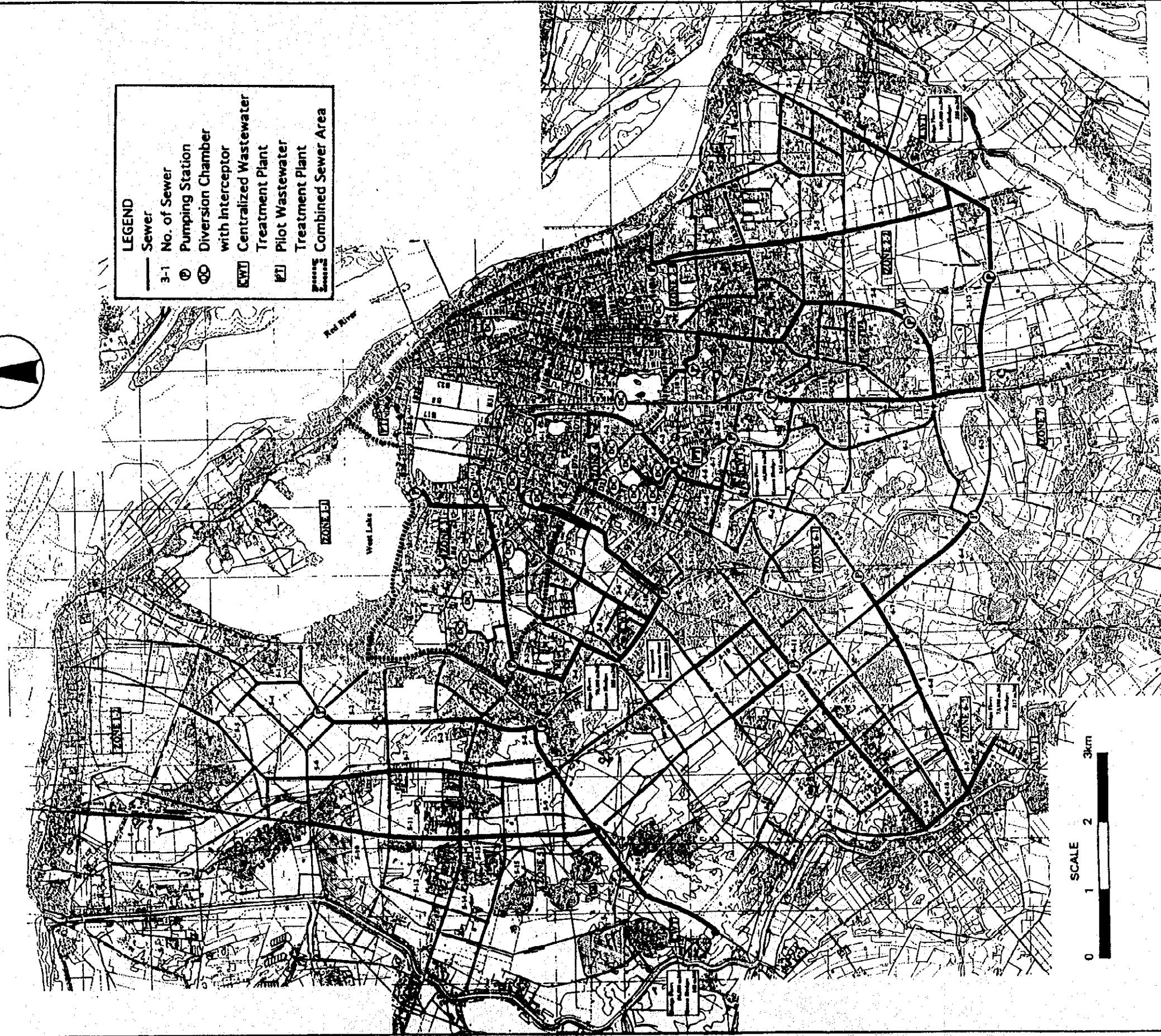
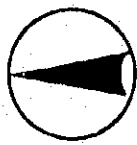


- LEGEND**
1. INLET FACILITIES AND FLOW MEASUREMENT
 2. AERATION TANK
 3. PRIMARY SETTLING TANK
 4. SETTLING TANKS
 5. SLUDGE PUMPING STATION
 6. CHLORINATION CONTACT TANK
DOSING PUMPS AND STORAGE
 7. THICKENER
 8. SLUDGE DIGESTION TANK

SCALE
0 50 100 150m

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DISPOSAL SYSTEM IN HANOI CITY
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Fig. E5.18
Layout of Plant (AS)
for Zone 6



LEGEND

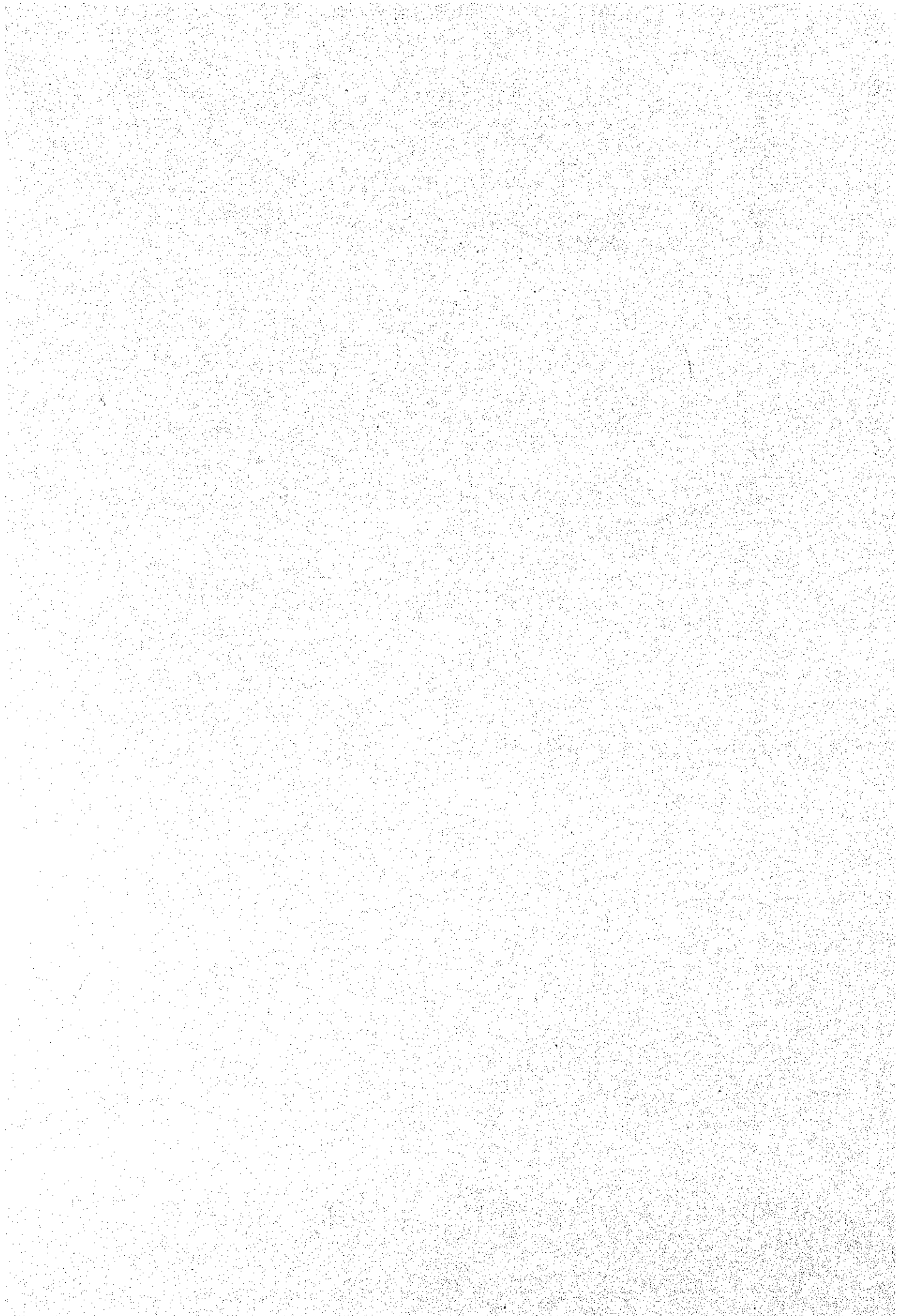
- Sewer
- 3-1 No. of Sewer
- ⊙ Pumping Station
- ⊙ Diversion Chamber with Interceptor
- ⊙ Centralized Wastewater Treatment Plant
- ⊙ Pilot Wastewater Treatment Plant
- ⊙ Combined Sewer Area



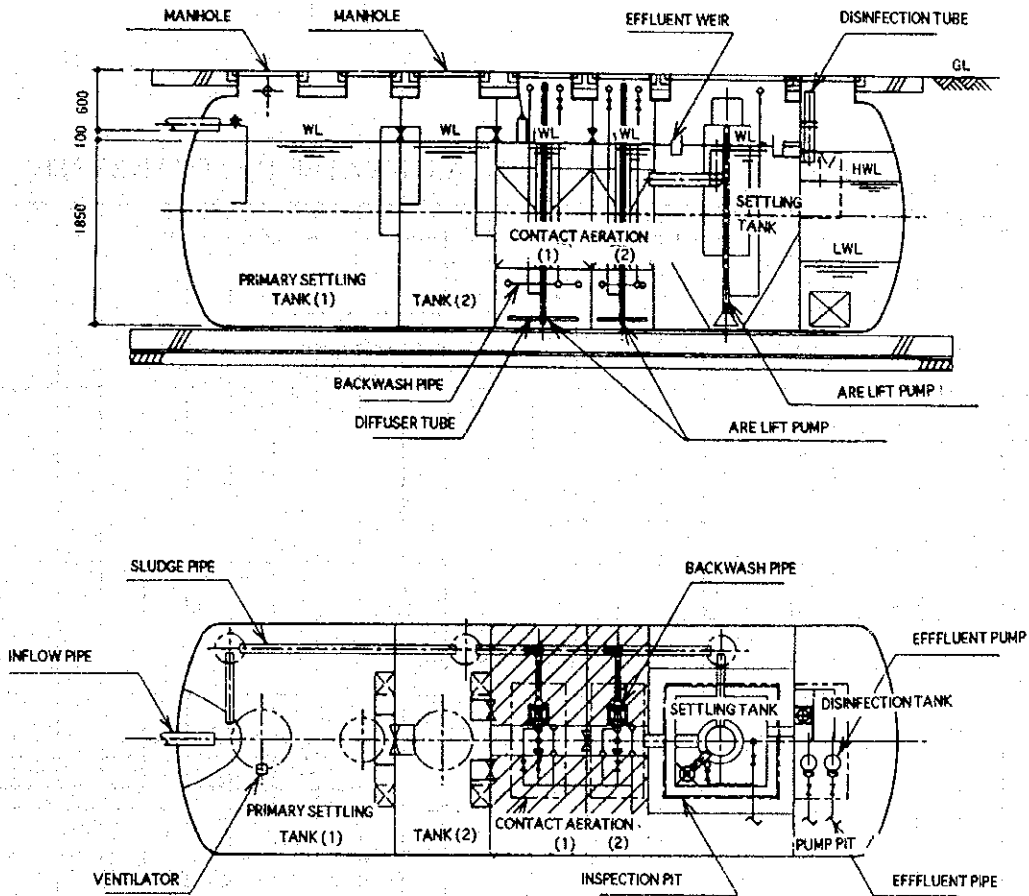
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DISPOSAL SYSTEM IN HANOI CITY

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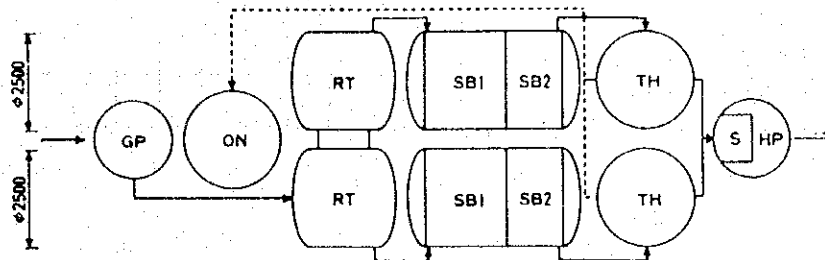
Fig. E6.1
OVERALL DEVELOPMENT PLAN
OF WASTEWATER DISPOSAL SYSTEM



IN CASE OF DESIGN FLOW: $Q < 50 \text{ m}^3/\text{d}$



IN CASE OF DESIGN FLOW: $Q > 50 \text{ m}^3/\text{d}$



- | | |
|-----------------------------|-----------------------|
| GP : PUMP PIT | TH : SETTLING TANK |
| RT : FLOW EQUALIZATION TANK | S : DISINFECTION TANK |
| SB1 : CONTACT AERATION (1) | HP : SETTLING TANK |
| SB2 : CONTACT AERATION (2) | ON : SLUDGE THICKENER |

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DISPOSAL SYSTEM IN HANOI CITY

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Fig. E6.2
JAPANESE TYPE SEPTIC TANK
(JOHKASO)

Fig. E6.3 IMPLEMENTATION SCHEDULE OF WASTEWATER DISPOSAL SYSTEM

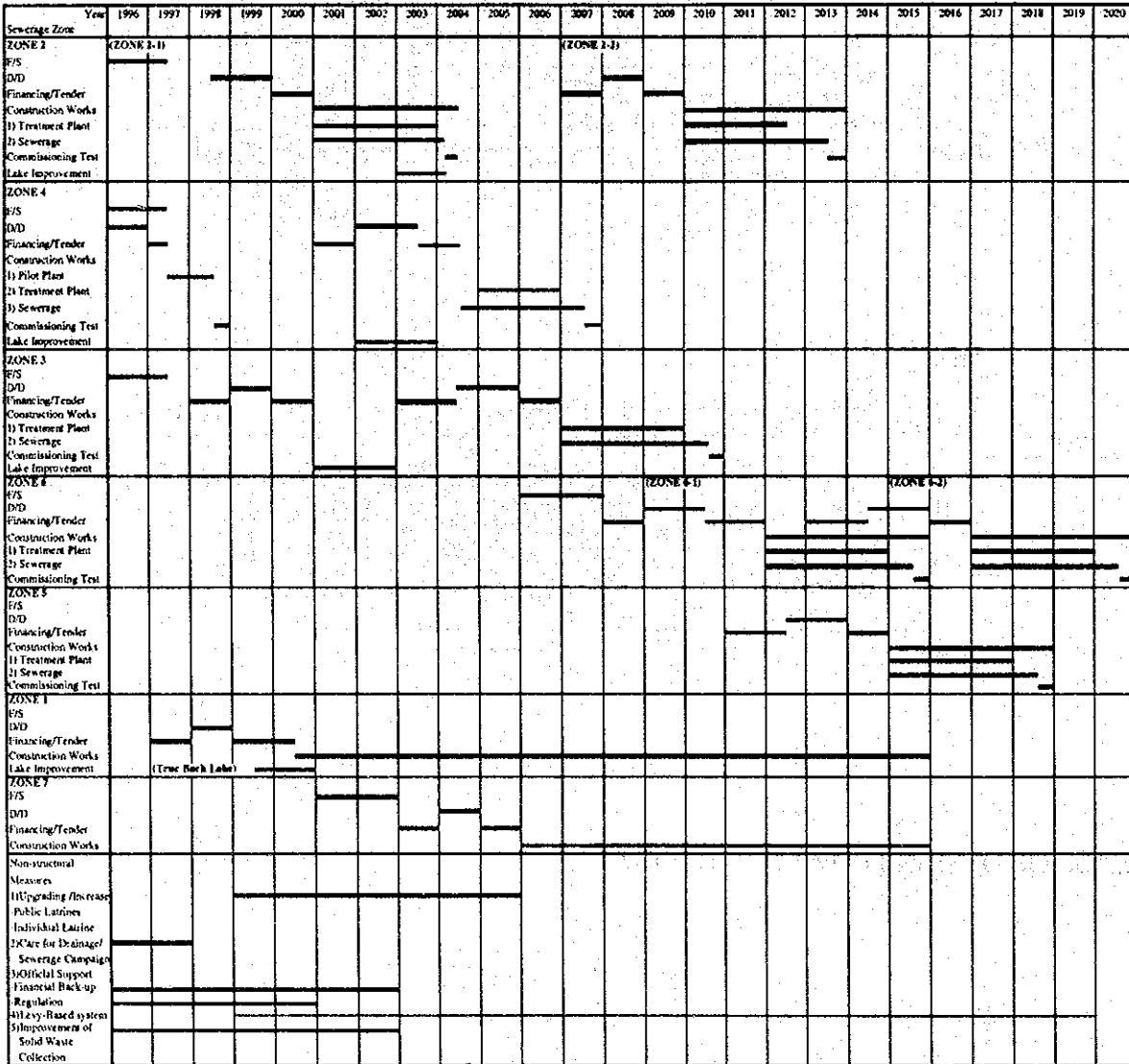


Fig. E6.4 DISBURSEMENT SCHEDULE OF WASTEWATER DISPOSAL SYSTEM (1/4)

(Unit: Million US\$)

Sewerage Zone Item	Total	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
ZONE 2-1																										
A. Construction Cost	57,198						16,288	16,288	18,228	6,395																
1. Treatment Plant	35,499						11,833	11,833	11,833																	
2. Sewerage	17,820						4,455	4,455	4,455	4,455																
3. Lake Water Quality Improvement Work	3,879							1,940	1,940																	
B. Land Acquisition Cost	2,505				1,253	1,253																				
C. Engineering Service Cost	8,580	0.613	0.613	1,226	1,226	0.613	1,226	1,226	1,226	0.613																
D. Administration Cost	2,983	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332																
E. Physical Contingency	14,254	0.189	0.189	0.312	0.562	0.440	3,569	3,569	3,957	1,468																
Sub-Total	85,322	1,134	1,134	1,870	3,373	2,638	21,415	21,415	23,743	8,808																
ZONE 4																										
A. Construction Cost	38,275		2,724	2,724			1,178	1,178	1,178	1,702	13,534	13,534	1,702													
1. Pilot Treatment Plant	5,448		2,724	2,724							11,833	11,832														
2. Treatment Plant	23,663										1,702	1,702	1,702													
3. Sewerage	6,808																									
4. Lake Water Quality Improvement Work	2,356																									
B. Land Acquisition Cost	11,419	1,900					4,760	4,760																		
C. Engineering Service Cost	5,741	0.273	0.273	0.273	0.410		0.820	0.820	0.820	0.820	0.820	0.820	0.410													
D. Administration Cost	2,485	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207													
E. Physical Contingency	11,584	0.476	0.641	0.641	0.123	0.041	0.041	1,393	1,393	0.546	2,912	2,912	0.464													
Sub-Total	69,504	2,837	3,343	3,343	0.741	0.249	0.249	8,358	8,358	3,273	17,473	17,473	2,703													

Fig. E6.4 DISBURSEMENT SCHEDULE OF WASTEWATER DISPOSAL SYSTEM (2/4)

(Unit: Million US\$)

Sewerage Zone Item	Total	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
ZONE 1																												
A. Construction Cost	62,904						0,918	0,918					18,383	18,383	18,383	5,922												
1. Treatment Plant	37,380												12,461	12,461	12,461													
2. Sewerage	25,686						0,918	0,918					5,922	5,922	5,922													
3. Lake Water Quality Improvement Work	1,835																											
B. Land Acquisition Cost	15,200										7,600	7,600																
C. Engineering Service Cost	9,436				1,048		1,048	1,048		1,048	1,048		1,048	1,048	1,048													
D. Administration Cost	3,905			0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300	0,300												
E. Physical Contingency	18,289			0,060	0,270	0,060	0,453	0,060	0,270	1,790	1,590	3,946	3,946	3,946	3,946	1,454												
Sub-Total	109,734			0,360	1,619	0,360	2,720	2,720	0,360	1,619	10,739	9,400	23,678	23,678	23,678	8,724												
ZONE 2-2																												
A. Construction Cost	35,375																10,295	10,295	10,295	4,489								
1. Treatment Plant	17,418																5,806	5,806	5,806									
2. Sewerage	17,957																4,489	4,489	4,489	4,489								
3. Lake Water Quality Improvement Work	0,000																											
B. Land Acquisition Cost	1,253																0,627	0,627										
C. Engineering Service Cost	5,306																1,061	1,061	1,061	1,061	1,061							
D. Administration Cost	1,831																0,262	0,262	0,262	0,262	0,262							
E. Physical Contingency	8,753																0,052	0,390	0,178	2,324	2,324	2,324	1,162					
Sub-Total	52,518																0,514	2,339	1,066	13,942	13,942	13,942	6,974					

Fig. E6.4 DISBURSEMENT SCHEDULE OF WASTEWATER DISPOSAL SYSTEM (3/4)

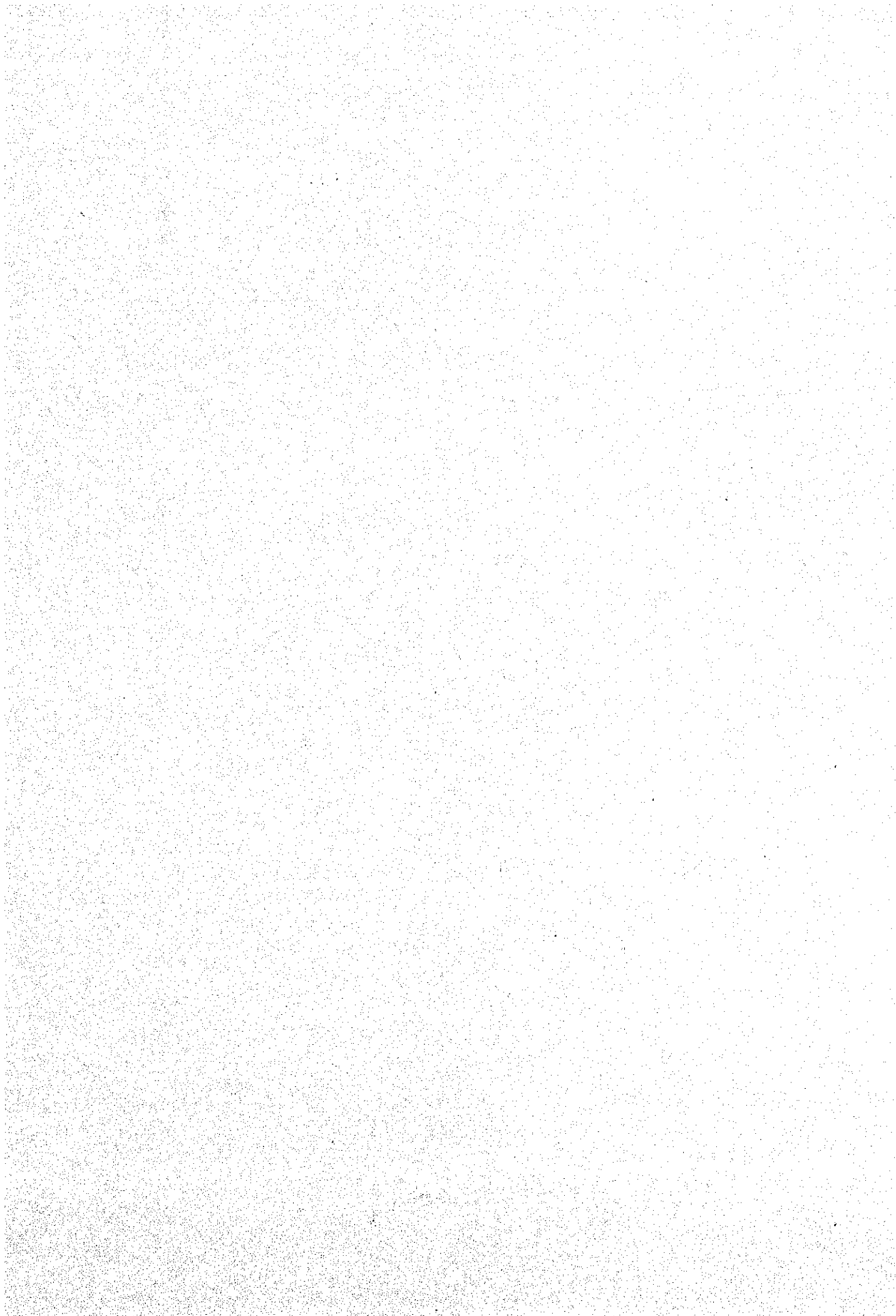
(Unit: Million US\$)

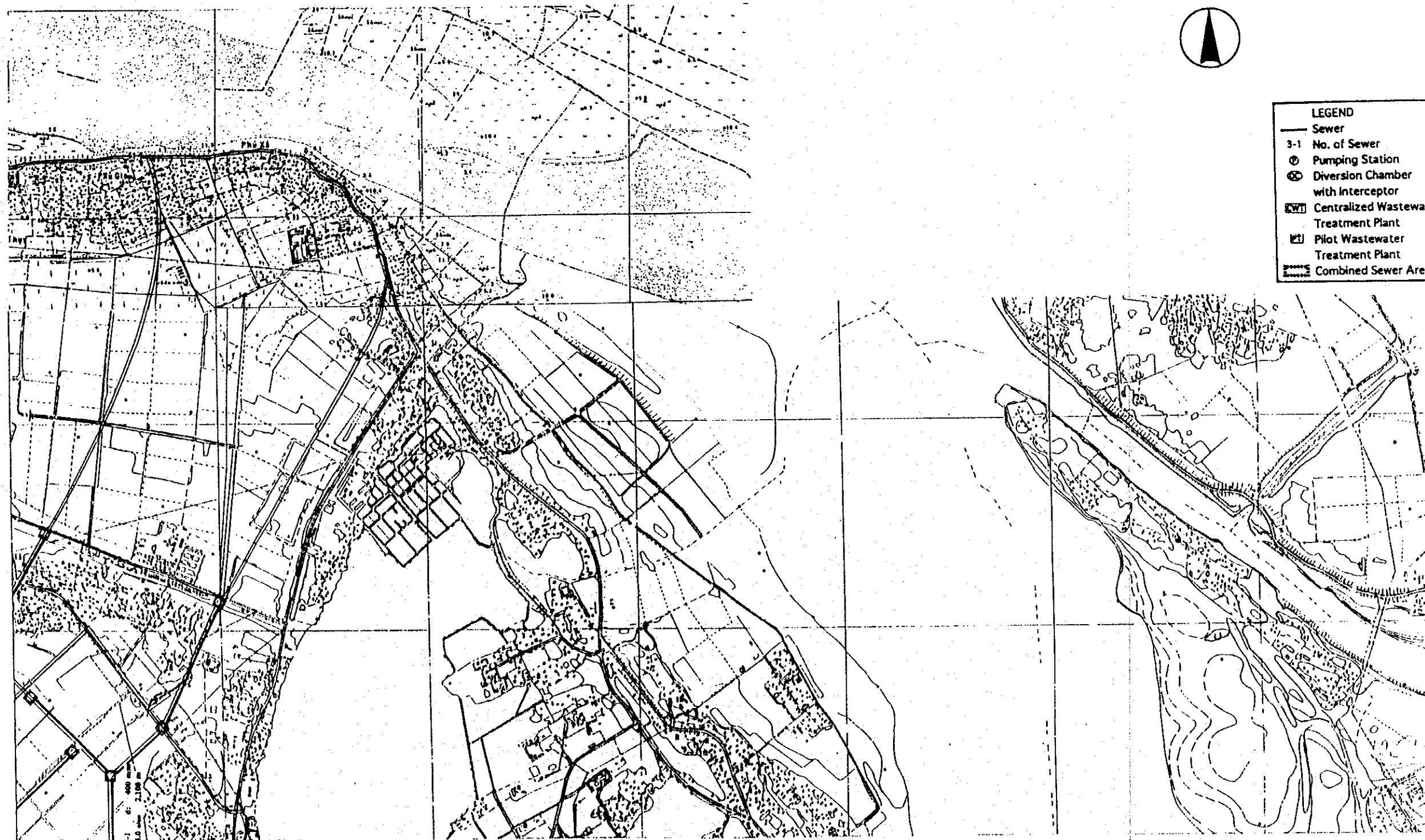
Sewerage Zone Item	Total	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020			
ZONE 6-1																													
A. Construction Cost	30.708																	8.986	8.986	8.986	3.746								
1. Treatment Plant	15.721																	5.240	5.240	5.240	3.746								
2. Sewerage	14.984																	3.746	3.746	3.746									
3. Lake Water Quality Improvement Works																													
B. Land Acquisition Cost	0.718														0.359	0.359													
C. Engineering Service Cost	4.606														0.768	0.768		0.768	0.768	0.768									
D. Administration Cost	1.571											0.157	0.157	0.157	0.157	0.157		0.157	0.157	0.157									
E. Physical Contingency	7.520											0.031	0.031	0.031	0.185	0.257	0.103	1.982	1.982	1.982	0.934								
Sub-Total	45.120											0.189	0.189	0.189	1.110	1.541	0.619	11.893	11.893	11.893	5.605								
ZONE 5																													
A. Construction Cost	77.397																												
1. Treatment Plant	31.466																												
2. Sewerage	45.931																												
3. Lake Water Quality Improvement Works																													
B. Land Acquisition Cost	2.755																			1.378	1.378								
C. Engineering Service Cost	11.610														1.935	1.935		1.935	1.935	1.935									
D. Administration Cost	4.008														0.501	0.501		0.501	0.501	0.501									
E. Physical Contingency	19.194														0.100	0.487	0.763	0.376	4.881	4.881	4.881								
Sub-Total	114.924														0.601	2.923	4.576	2.254	29.289	29.289	29.289	16.703							
ZONE 6-2																													
A. Construction Cost	61.433																												
1. Treatment Plant	22.778																												
2. Sewerage	38.655																												
3. Lake Water Quality Improvement Works																													
B. Land Acquisition Cost	1.040																				0.520	0.520							
C. Engineering Service Cost	9.215																				1.536	1.536							
D. Administration Cost	3.124																				0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391
E. Physical Contingency	14.962														0.000	0.078	0.385	0.489	0.182	3.837	3.837								
Sub-Total	88.774														0.000	0.469	2.312	2.936	1.093	23.019	23.019	16.703							

Fig. E6.4 DISBURSEMENT SCHEDULE OF WASTEWATER DISPOSAL SYSTEM (4/4)

(Unit:Million US\$)

Sewerage Zone Item	Total	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
ZONE 1-1																											
A.Construction Cost	15.608				0.880	1.791	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863
1.Treatment Plant	13.800				0.863	1.791	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863
2.Sewerage	0.948				0.048																						
3.Lake Water Quality Improvement Work	1.766				0.880																						
B.Land Acquisition Cost	2.992				0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
C.Engineering Service Cost	2.341				0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
D.Administration Cost	0.930				0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
E.Physical Contingency	4.372				0.016	0.036	0.249	0.431	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246	0.246
Sub-Total	26.233				0.059	0.215	1.434	2.587	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474	1.474
ZONE 1-2																											
A.Construction Cost	17.038													2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482	2.482
1.Treatment Plant	8.444													1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407	1.407
2.Sewerage	8.594													1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074
3.Lake Water Quality Improvement Work	0.990													0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B.Land Acquisition Cost	0.361													0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
C.Engineering Service Cost	2.556													0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.284
D.Administration Cost	0.870													0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
E.Physical Contingency	4.165													0.017	0.110	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571	0.571
Sub-Total	24.990													0.104	0.662	3.423	3.423	3.423	3.423	3.423	3.423	3.423	3.423	3.423	3.423	3.423	3.423
ZONE 7																											
A.Construction Cost	13.253													1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325
1.Treatment Plant	13.253													1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325	1.325
2.Sewerage																											
3.Lake Water Quality Improvement Work																											
B.Land Acquisition Cost	0.415													0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
C.Engineering Service Cost	1.988													0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
D.Administration Cost	0.683													0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
E.Physical Contingency	3.268													0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Sub-Total	19.607													0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055

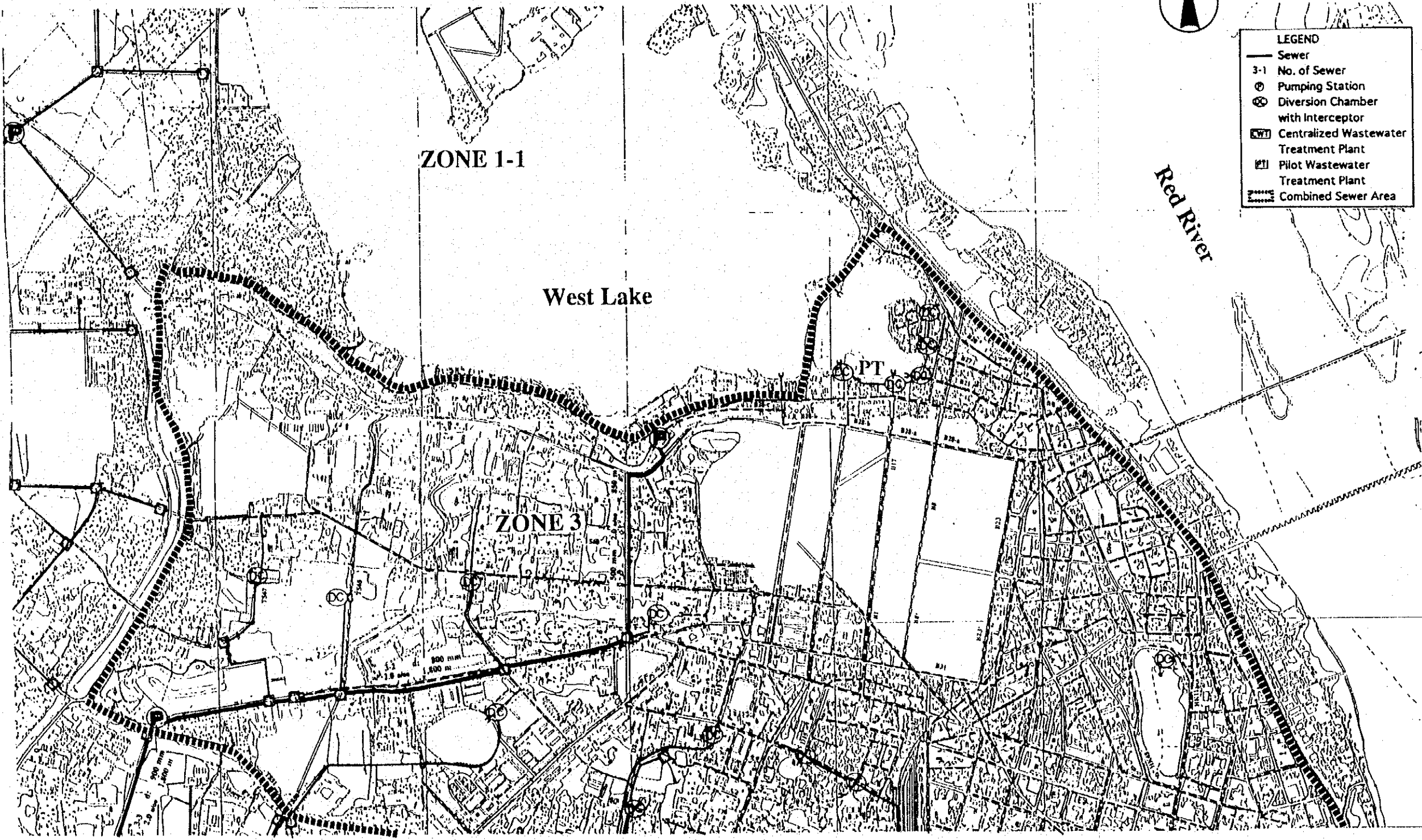




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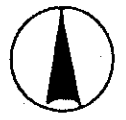
Fig. E6.5 (1/10)
 LAYOUT OF SEWERAGE SYSTEM (1/10)



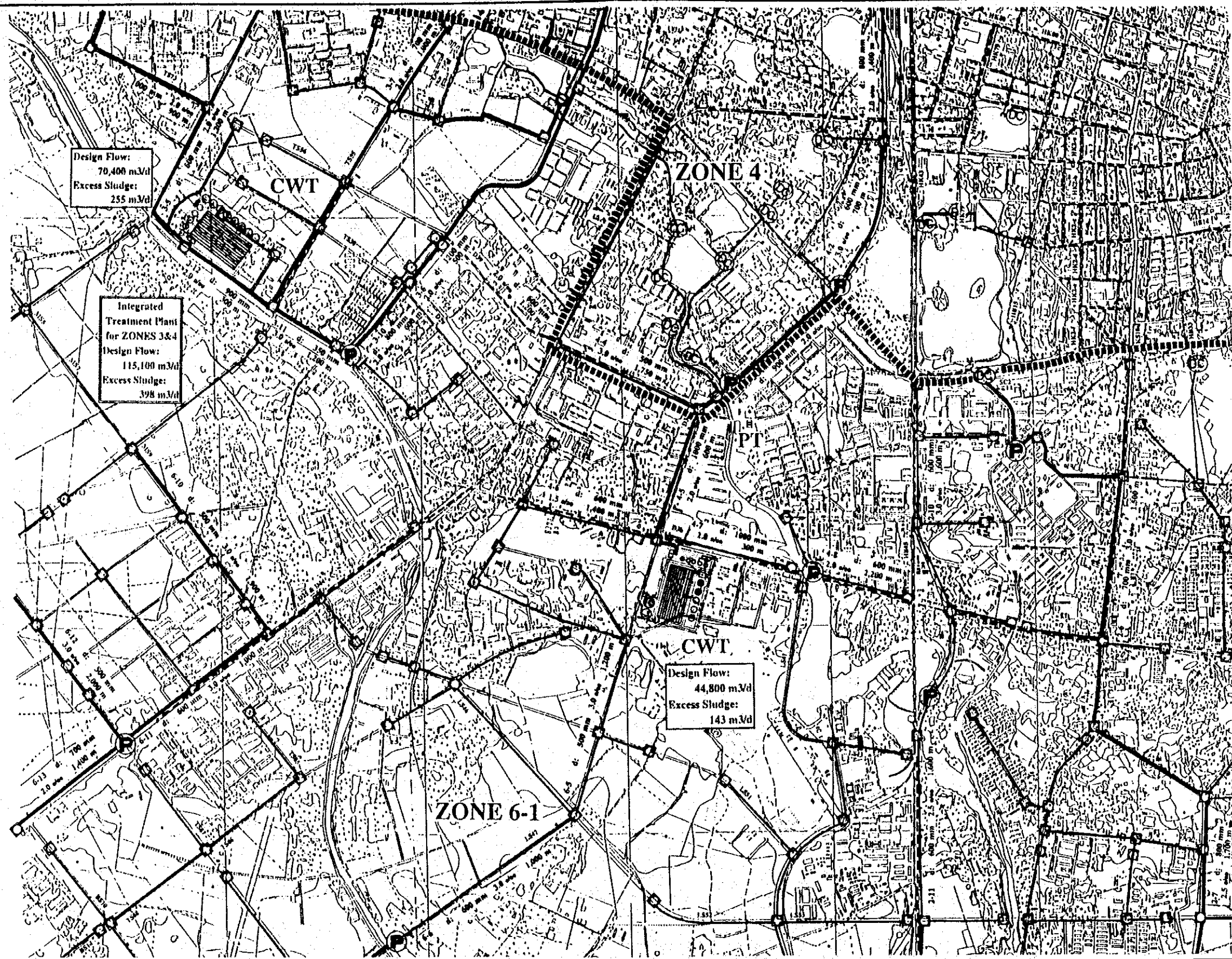
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Fig. E6.5 (2/10)
 LAYOUT OF SEWERAGE SYSTEM (2/10)

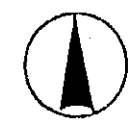
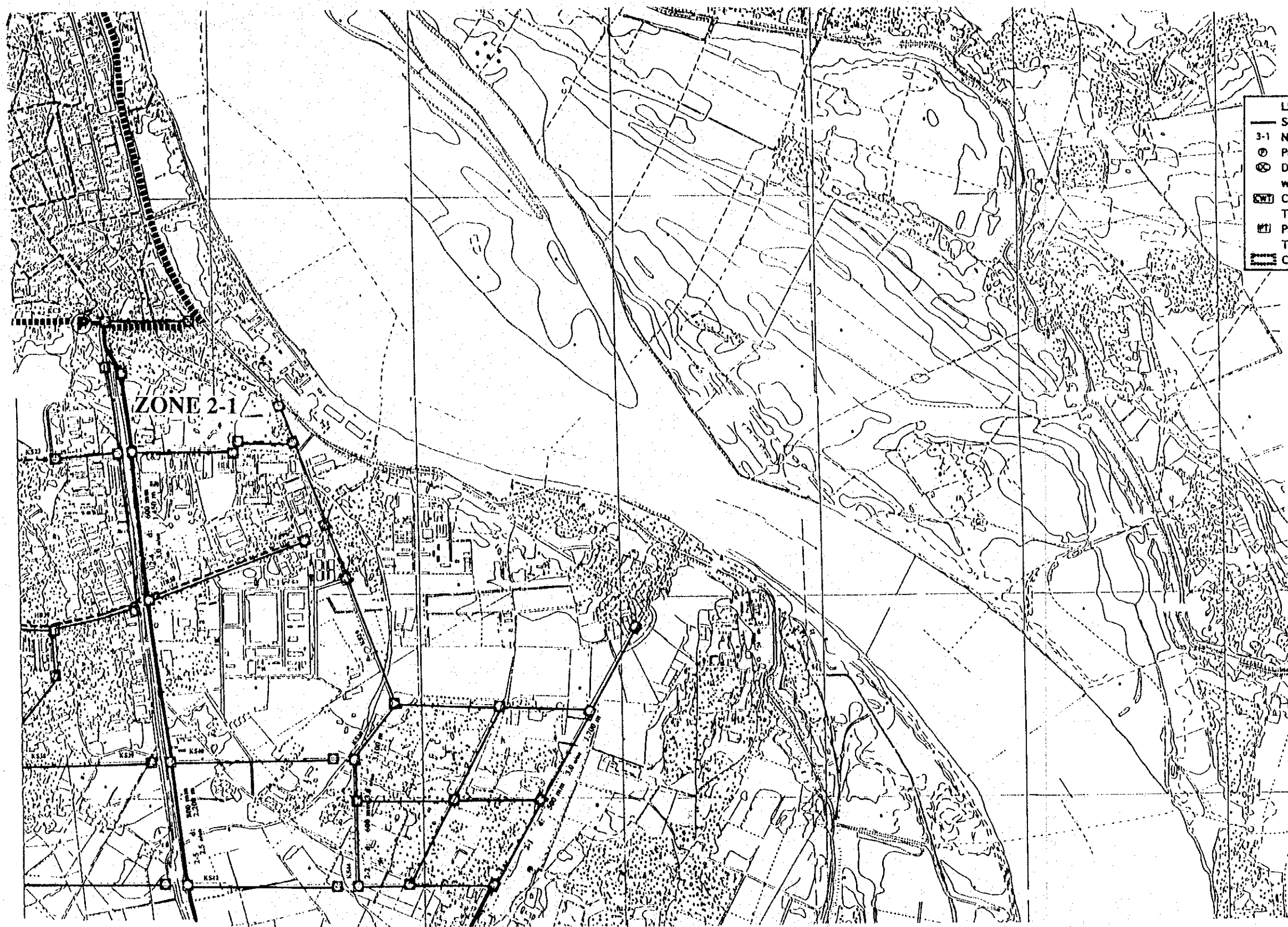


- LEGEND
- Sewer
 - 3-1 No. of Sewer
 - ⊙ Pumping Station
 - ⊗ Diversion Chamber with Interceptor
 - ⊠ Centralized Wastewater Treatment Plant
 - ⊡ Pilot Wastewater Treatment Plant
 - ▨ Combined Sewer Area



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Fig. E6.5 (3/10)
LAYOUT OF SEWERAGE SYSTEM (3/10)



- LEGEND**
- Sewer
 - 3-1 No. of Sewer
 - ⊙ Pumping Station
 - ⊗ Diversion Chamber with Interceptor
 - ☒ Centralized Wastewater Treatment Plant
 - ☒ Pilot Wastewater Treatment Plant
 - ☒ Combined Sewer Area

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Fig. E6.5 (4/10)
 LAYOUT OF SEWERAGE SYSTEM (4/10)